



## Endeavor® Line Achiever Plus® Series iR Residential Packaged Dual Fuel Units



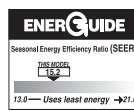
### RDFXYC Series

Nominal Sizes: 2 to 5 Tons [7.0 to 17.6 kW]

Cooling Efficiency: 15.2 SEER2

Heating Efficiency: 7.2 HSPF2

Refrigerant Type: R-454B



<sup>1</sup>Proper sizing and installation of equipment is critical to achieve optimal performance.

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## FEATURES AND BENEFITS

- **Two-Stage Scroll Compressors on all Models:** Modulates between two capacity settings — 67% and 100% — providing more precise temperature control, lower humidity and greater efficiency in comparison to single stage compressors. It uses 70% fewer moving parts which also increases efficiency and reliability
- **Two-Stage Northern Heat Pump Configuration (Two-Stage HP Heat/Single-Stage Cool) 2 Ton Only:** Provides 40% higher heating capacity than a standard heat pump. Leaving air temperature is an average of 5 degrees warmer at all heating conditions, than standard single or two stage heat pumps
- **PlusOne® Diagnostics<sup>1</sup>:** The Ruud Contractor App and built-in EcoNet® & Bluetooth®<sup>2</sup> technology, makes monitoring, troubleshooting and repairing the product easier than ever before
- **Installation Commissioning via Bluetooth® Technology:** Seamless final install step without DIP switch configuration using the Ruud Contractor App.
- **On-demand Dehumidification:** Available through EcoNet® thermostat
- **MicroChannel Evaporator and Condenser Coil:** Delivers superior performance with less refrigerant charge and less weight than conventional copper tube/aluminum fin coils. All aluminum construction has superior protection against formicary corrosion and aluminum tube rubbing potential. It is easier to clean and has a more robust surface
- **Constant Volume Motor:** Truly variable speed technology allows for ultimate humidity control, quieter sound levels and year-round energy savings
- **Dedicated Heating Speeds:** Maintain consistent performance via Constant CFM motor to keep temp rise at a comfortable level
- **Thermal Expansion Valves:** Standard on all models for precise superheat control, reliability, and energy efficiency at all operating conditions
- **High and Low Pressure Control:** Standard on all models for refrigerant component protection and reliability
- **Filter Drier:** Standard on all models
- **100% Factory Run Tested**
- **Stainless Steel Heat Exchanger:** Available as factory installed option for better corrosion resistance
- **PlusOne® Ignition System:** Proven Direct Spark Ignition System (DSI) for reliability and longevity
- **PlusOne® Refrigerant Detection System™:** An integrated one-box, patented design featuring the A2L sensor and mitigation board, offering easier commissioning with a single component and simplified wiring configuration, compatibility with any 24V thermostat application and system protection by automatically pausing outdoor unit operation – if excess refrigerant is detected
- **Rugged Base Rail:** For improved installation and handling.
- **Easily Accessible Control Box, Furnace Compartment and Slide-Out Blower Section:** Allows for installability and serviceability
- **Side and Down Discharge Options Available:** All models are shipped ready for horizontal applications
- **Double Sloped Evaporator Coil Drain Pan:** Allows for complete water removal from the unit—contributing to improved indoor air quality
- **Louvered Condenser Compartment:** Protects the coil against yard hazards and/or weather extremes
- **Supply and Return Air Openings:** Feature a one-inch-tall flange to prevent water migration into the ductwork
- **Designing for Sustainability with Low GWP:** For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%<sup>3</sup> lower GWP than previous-generation refrigerants with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort

<sup>1</sup>Bluetooth functionality applies to the heating section only. <sup>2</sup>The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Rheem® is under license. Other trademarks and trade names are those of their respective owners. <sup>3</sup>When comparing the GWP of R-454B to R-410A refrigerant.

Dual Fuel

| <u>R</u> | <u>DF</u>        | <u>X</u>                 | <u>Y</u>    | <u>C</u>                  | <u>024</u>                                                                                              | <u>A</u>       | <u>J</u>                                       | <u>V</u>            | <u>06</u>                                           | <u>2</u>               | <u>C</u>          | <u>A</u>       |
|----------|------------------|--------------------------|-------------|---------------------------|---------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|---------------------|-----------------------------------------------------|------------------------|-------------------|----------------|
| Brand    | Product Category | Platform                 | Refrigerant | Tier                      | Capacity BTU/HR                                                                                         | Major Series   | Voltage                                        | Drive               | Gas Heat Input                                      | Gas Heat Configuration | Control           | Minor Series   |
| R - Ruud | DF - Dual Fuel   | X - Resipack Convertible | Y - R-454B  | C - Mid Tier (15.2 SEER2) | 024 - 24,000 [7.03 kW]<br>036 - 36,000 [10.55 kW]<br>048 - 48,000 [14.07 kW]<br>060 - 60,000 [17.58 kW] | A - 1st Design | J - 1ph, 208 - 230/60<br>C - 3ph, 208 - 230/60 | V - Constant Volume | 06 - 60K BTU/H<br>08 - 80K BTU/H<br>10 - 100K BTU/H | 2 - Two Stage          | C - Communicating | A - 1st Design |

[ ] Designates Metric Conversions

| Available Models  |
|-------------------|
| RDFXYC024AJV062CA |
| RDFXYC024ACV062CA |
| RDFXYC036AJV062CA |
| RDFXYC036AJV082CA |
| RDFXYC036ACV062CA |
| RDFXYC036ACV082CA |
| RDFXYC048AJV082CA |
| RDFXYC048AJV102CA |
| RDFXYC048ACV082CA |
| RDFXYC048ACV102CA |
| RDFXYC060AJV082CA |
| RDFXYC060AJV102CA |
| RDFXYC060ACV082CA |
| RDFXYC060ACV102CA |

NOTE: Stainless steel heat exchanger option is available on all models.

## Instructions for Factory-Installed Option(s) Selection

**Note:** Three characters following the model number will be utilized to designate a factory-installed option or combination of options. If no factory option(s) is required, nothing follows the model number.

After a basic rooftop model is selected, choose a *three-character* option code from the FACTORY-INSTALLED OPTION SELECTION TABLE.

### FACTORY INSTALLED OPTION CODES

| Option Code | Stainless Steel Heat Exchanger |
|-------------|--------------------------------|
| AJA         | X                              |

"x" indicates factory installed option.

Example: No Option

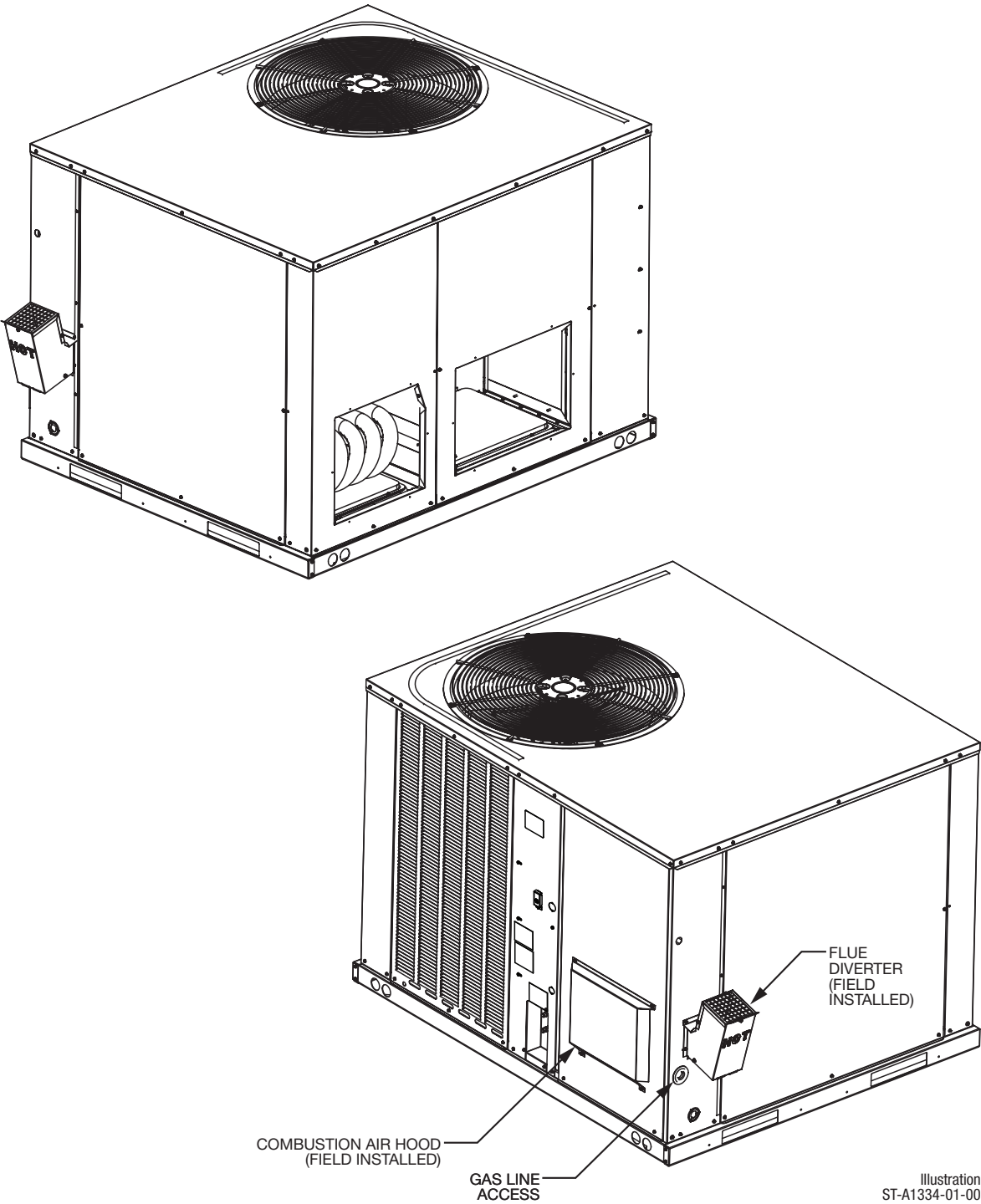
RDFXYC036AJV082CA

Example: Option with Stainless Steel Heat Exchanger

RDFXYC036AJV082CAAJA

**NOTES:** Factory installed economizer is not available.

UNIT DIMENSIONS  
RDFXYC



[ ] Designates Metric Conversions

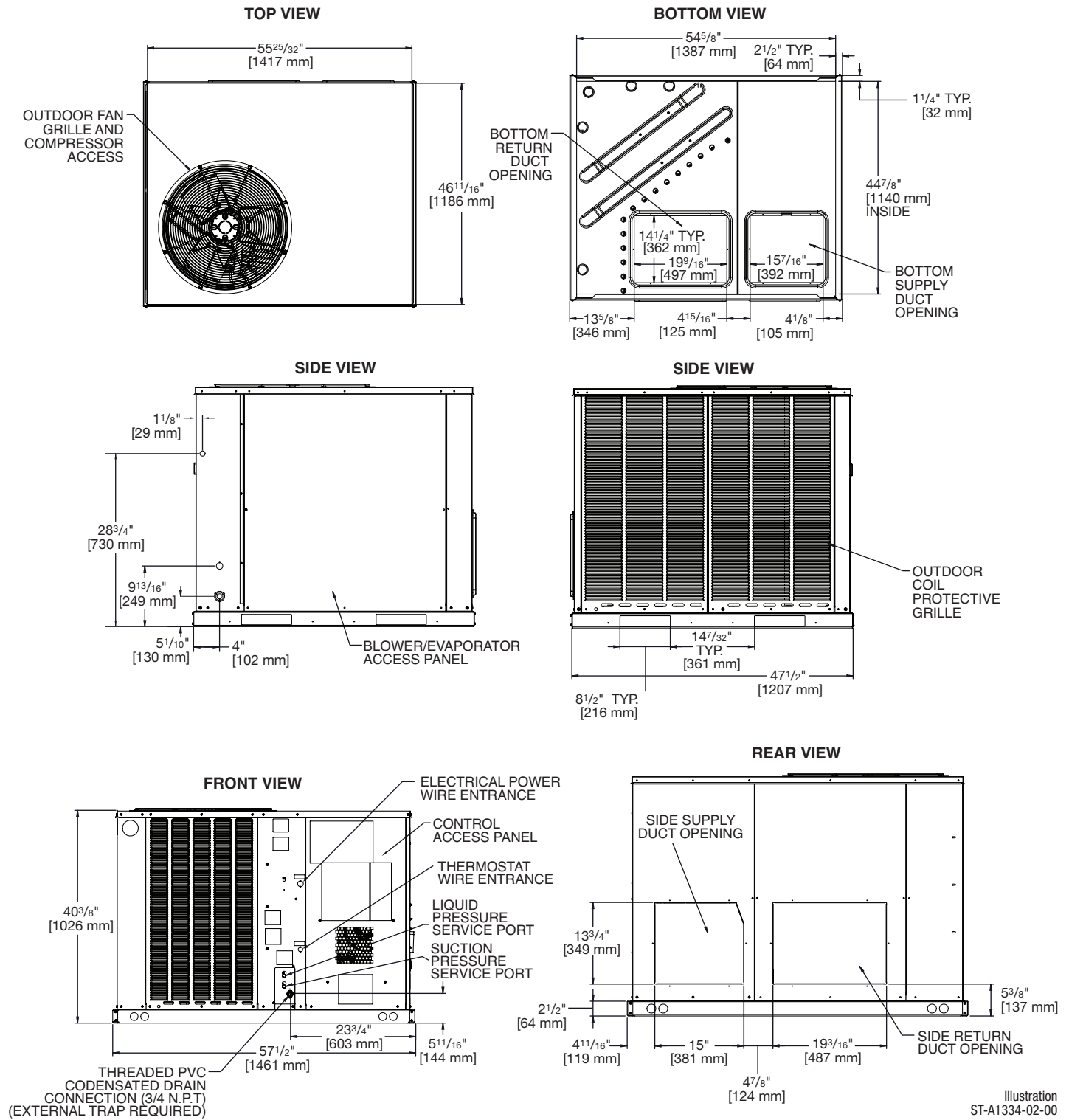
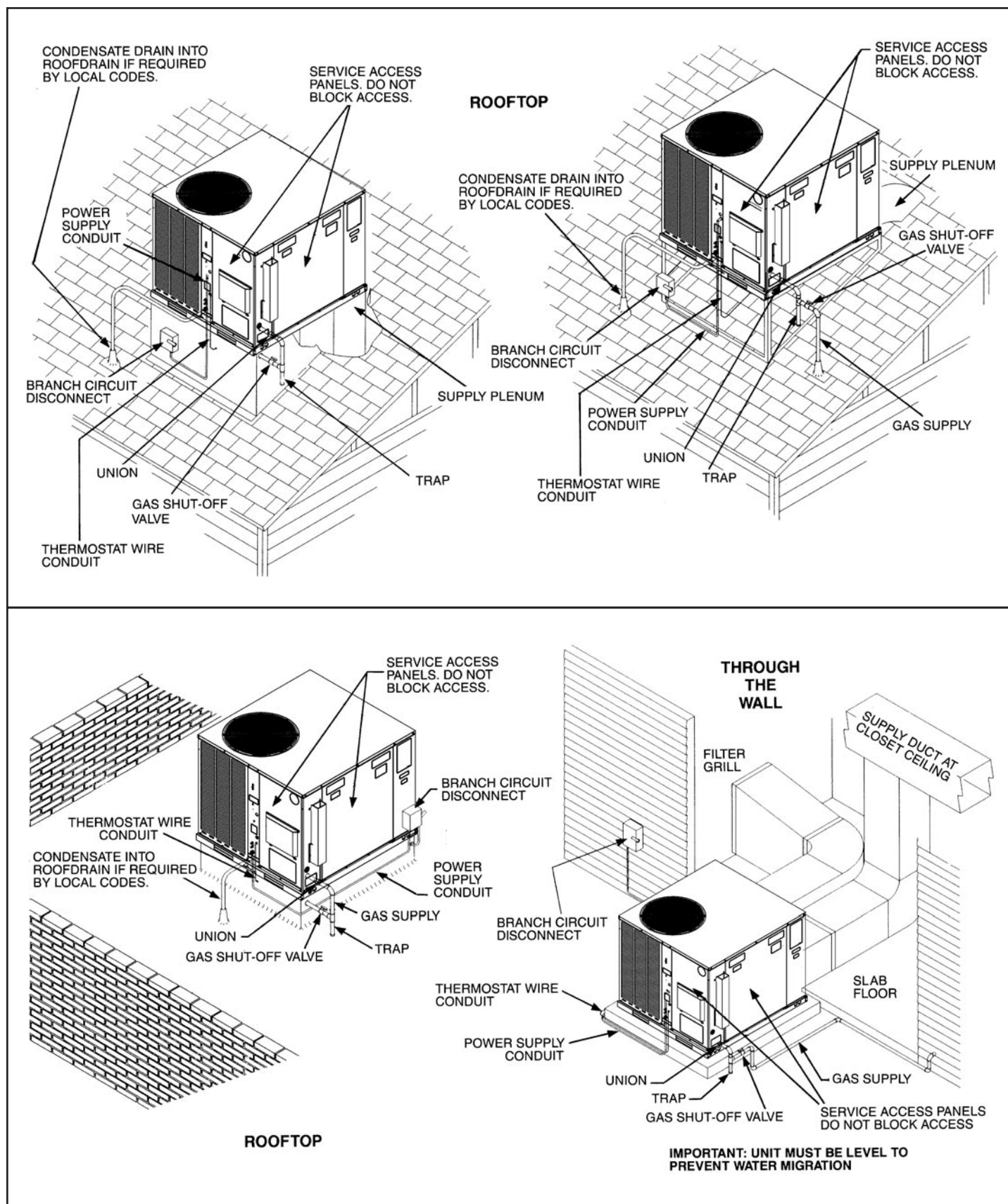


Illustration  
ST-A1334-02-00

| Models<br>RDFXYC         | Height "A" |
|--------------------------|------------|
| 024<br>036<br>048<br>060 | 41"        |

[ ] Designates Metric Conversions







## NOMINAL SIZES 2.5 TONS [7.0-17.6 kW]

| Model RDFXYC Series                                  | 024ACV062                   | 024AJV062                   | 036ACV062                   | 036ACV082                   |
|------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| <b>Cooling Performance<sup>1</sup></b>               |                             |                             |                             | <b>CONTINUED</b> →          |
| Nominal Cooling Capacity BTU/h [kW]                  | 24,000 [7.03]               | 24,000 [7.03]               | 36,000 [10.55]              | 36,000 [10.55]              |
| EER2/SEER2 <sup>2</sup>                              | 11.5/15.2                   | 11.5/15.2                   | 11.5/15.2                   | 11.5/15.2                   |
| Nominal CFM/AHRI Rated CFM [L/s]                     | 800/840 [378/396]           | 800/840 [378/396]           | 1200/1230 [566/580]         | 1200/1230 [566/580]         |
| AHRI Net Cooling Capacity BTU/h [kW]                 | 22,800 [6.68]               | 22,800 [6.68]               | 34,200 [10.02]              | 34,200 [10.02]              |
| Net Sensible Capacity BTU/h [kW]                     | 17,100 [5.01]               | 17,100 [5.01]               | 25,600 [7.5]                | 25,600 [7.5]                |
| Net Latent Capacity BTU/h [kW]                       | 5,700 [1.67]                | 5,700 [1.67]                | 8,600 [2.52]                | 8,600 [2.52]                |
| Net System Power [kW]                                | 1.98                        | 1.98                        | 2.97                        | 2.97                        |
| <b>Heating Performance (Heat Pumps)</b>              |                             |                             |                             |                             |
| High Temp. BTU/h [kW] Rating                         | 32,000 [9.38]               | 32,000 [9.38]               | 34,200 [10.02]              | 34,200 [10.02]              |
| High System Power kW/COP                             | 2.68 / 3.5                  | 2.68 / 3.5                  | 2.64 / 3.8                  | 2.64 / 3.8                  |
| Low Temp. BTU/h [kW] Rating                          | 18,600 [5.45]               | 18,600 [5.45]               | 19,400 [5.69]               | 19,400 [5.69]               |
| High System Power kW/COP                             | 2.37/2.3                    | 2.37/2.3                    | 2.47/2.3                    | 2.47/2.3                    |
| HSPF2 (BTU/Watts-h)                                  | 7.2                         | 7.2                         | 7.2                         | 7.2                         |
| <b>Heating Performance (Gas)<sup>3</sup></b>         |                             |                             |                             |                             |
| Heating Input BTU/h [kW] (1st Stage/2nd Stage)       | 42,000/60,000 [12.31/17.58] | 42,000/60,000 [12.31/17.58] | 42,000/60,000 [12.31/17.58] | 56,000/80,000 [16.41/23.44] |
| Heating Output BTU/h [kW] (1st Stage/2nd Stage)      | 34,020/48,600 [9.97/14.24]  | 34,020/48,600 [9.97/14.24]  | 34,020/48,600 [9.97/14.24]  | 45,360/64,800 [13.29/18.99] |
| Temperature Rise Range °F [°C]                       | 20-50 [11.1-27.8]           | 20-50 [11.1-27.8]           | 20-50 [11.1-27.8]           | 25-55 [13.9-30.6]           |
| (1st Stage/2nd Stage)                                | 30-60 [16.7-33.3]           | 30-60 [16.7-33.3]           | 30-60 [16.7-33.3]           | 35-65 [19.4-36.1]           |
| AFUE %                                               | NA                          | 81                          | NA                          | NA                          |
| Steady State Efficiency (%)                          | 81                          | NA                          | 81                          | 81                          |
| No. Burners                                          | 3                           | 3                           | 3                           | 4                           |
| No. Stages                                           | 2                           | 2                           | 2                           | 2                           |
| Gas Connection Pipe Size in. [mm]                    | 1/2 [12.70]                 | 1/2 [12.70]                 | 1/2 [12.70]                 | 1/2 [12.70]                 |
| <b>Compressor</b>                                    |                             |                             |                             |                             |
| No./Stg/Type                                         | 1/2/scroll                  | 1/2/scroll                  | 1/2/scroll                  | 1/2/scroll                  |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>         | 78                          | 78                          | 78                          | 78                          |
| <b>Outdoor Coil - Fin Type</b>                       | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                |
| Tube Type                                            | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 0.63 [16.00]                | 0.63 [16.00]                | 0.63 [16.00]                | 0.63 [16.00]                |
| Face Area sq. ft. [sq. m]                            | 16.48 [1.53]                | 16.48 [1.53]                | 16.48 [1.53]                | 16.48 [1.53]                |
| Rows / FPI [FPcm]                                    | 1/16 [6]                    | 1/16 [6]                    | 1/16 [6]                    | 1/16 [6]                    |
| <b>Indoor Coil - Fin Type</b>                        | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                |
| Tube Type                                            | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 1.00 [25.40]                | 1.00 [25.40]                | 1.00 [25.40]                | 1.00 [25.40]                |
| Face Area sq. ft. [sq. m]                            | 7.6 [0.71]                  | 7.6 [0.71]                  | 7.6 [0.71]                  | 7.6 [0.71]                  |
| Rows / FPI [FPcm]                                    | 1/20 [8]                    | 1/20 [8]                    | 1/20 [8]                    | 1/20 [8]                    |
| Refrigerant Control                                  | TXV                         | TXV                         | TXV                         | TXV                         |
| Drain Connection No./Size in. [mm]                   | 1/0.750 [19.05]             | 1/0.750 [19.05]             | 1 / 0.750 [19.05]           | 1 / 0.750 [19.05]           |
| <b>Outdoor Fan - Type</b>                            | Propeller                   | Propeller                   | Propeller                   | Propeller                   |
| No. Used/Diameter in. [mm]                           | 1/24.0 [609.6]              | 1/24.0 [609.6]              | 1/24.0 [609.6]              | 1/24.0 [609.6]              |
| Drive Type/No. Speeds                                | Direct/                     | Direct/                     | Direct/                     | Direct/                     |
| CFM [L/s]                                            | 4300 [2029]                 | 4300 [2029]                 | 4300 [2029]                 | 4300 [2029]                 |
| No. Motors/HP                                        | 1 at 1/3                    | 1 at 1/3                    | 1 at 1/3                    | 1 at 1/3                    |
| Motor RPM                                            | 825                         | 825                         | 825                         | 825                         |
| <b>Indoor Fan - Type</b>                             | Constant CFM                | Constant CFM                | Constant CFM                | Constant CFM                |
| No. Used/Diameter in. [mm]                           | 1/11x9 [279x229]            | 1/11x9 [279x229]            | 1/11x9 [279x229]            | 1/11x9 [279x229]            |
| Drive Type                                           | Direct                      | Direct                      | Direct                      | Direct                      |
| No. Speeds                                           | Variable Speed              | Variable Speed              | Variable Speed              | Variable Speed              |
| No. Motors                                           | 1                           | 1                           | 1                           | 1                           |
| Motor HP                                             | 1                           | 1                           | 1                           | 1                           |
| Motor RPM                                            | 1300                        | 1300                        | 1300                        | 1300                        |
| Motor Frame Size                                     |                             |                             |                             |                             |
| <b>Filter - Type</b>                                 | Field Supplied              | Field Supplied              | Field Supplied              | Field Supplied              |
| Furnished                                            | No                          | No                          | No                          | No                          |
| (NO.) Size Recommended in. [mm x mm x mm]            | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]    |
| <b>Refrigerant Charge Oz. [g]</b>                    | 80.0 [2268.0]               | 80.0 [2268.0]               | 80.0 [2268.0]               | 80.0 [2268.0]               |
| <b>Weights</b>                                       |                             |                             |                             |                             |
| Net Weight lbs. [kg]                                 | 500 [227]                   | 500 [227]                   | 500 [227]                   | 505 [229]                   |
| Ship Weight lbs. [kg]                                | 510 [231]                   | 510 [231]                   | 510 [231]                   | 515 [234]                   |

See Page 13 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 2.5 TONS [7.0-17.6 kW]

| Model RDFXYC Series                                  | 036AJV062                   | 036AJV082                   | 048ACV082                   | 048ACV102                    |
|------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| <b>Cooling Performance<sup>1</sup></b>               |                             |                             |                             | <b>CONTINUED</b> →           |
| Nominal Cooling Capacity BTU/h [kW]                  | 36,000 [10.55]              | 36,000 [10.55]              | 48,000 [14.07]              | 48,000 [14.07]               |
| EER2/SEER2 <sup>2</sup>                              | 11.5/15.2                   | 11.5/15.2                   | 11.5/15.2                   | 11.5/15.2                    |
| Nominal CFM/AHRI Rated CFM [L/s]                     | 1200/1230 [566/580]         | 1200/1230 [566/580]         | 1600/1430 [755/675]         | 1600/1430 [755/675]          |
| AHRI Net Cooling Capacity BTU/h [kW]                 | 34,200 [10.02]              | 34,200 [10.02]              | 45,500 [13.34]              | 45,500 [13.34]               |
| Net Sensible Capacity BTU/h [kW]                     | 25,600 [7.5]                | 25,600 [7.5]                | 34,200 [10.02]              | 34,200 [10.02]               |
| Net Latent Capacity BTU/h [kW]                       | 8,600 [2.52]                | 8,600 [2.52]                | 11,300 [3.31]               | 11,300 [3.31]                |
| Net System Power [kW]                                | 2.97                        | 2.97                        | 3.96                        | 3.96                         |
| <b>Heating Performance (Heat Pumps)</b>              |                             |                             |                             |                              |
| High Temp. BTU/h [kW] Rating                         | 34,200 [10.02]              | 34,200 [10.02]              | 45,500 [13.34]              | 45,500 [13.34]               |
| High System Power kW/COP                             | 2.64 / 3.8                  | 2.64 / 3.8                  | 3.65 / 3.65                 | 3.65 / 3.65                  |
| Low Temp. BTU/h [kW] Rating                          | 19,400 [5.69]               | 19,400 [5.69]               | 24,600 [7.21]               | 24,600 [7.21]                |
| High System Power kW/COP                             | 2.47/2.3                    | 2.47/2.3                    | 3.11/2.32                   | 3.11/2.32                    |
| HSPF2 (BTU/Watts-h)                                  | 7.2                         | 7.2                         | 7.2                         | 7.2                          |
| <b>Heating Performance (Gas)<sup>3</sup></b>         |                             |                             |                             |                              |
| Heating Input BTU/h [kW] (1st Stage/2nd Stage)       | 42,000/60,000 [12.31/17.58] | 56,000/80,000 [16.41/23.44] | 56,000/80,000 [16.41/23.44] | 70,000/100,000 [20.51/29.30] |
| Heating Output BTU/h [kW] (1st Stage/2nd Stage)      | 34,020/48,600 [9.97/14.24]  | 45,360/64,800 [13.29/18.99] | 45,360/64,800 [13.29/18.99] | 56,700/81,000 [16.62/23.74]  |
| Temperature Rise Range °F [°C]                       | 20-50 [11.1-27.8]           | 25-55 [13.9-30.6]           | 25-55 [13.9-30.6]           | 25-55 [13.9-30.6]            |
| (1st Stage/2nd Stage)                                | 30-60 [16.7-33.3]           | 35-65 [19.4-36.1]           | 35-65 [19.4-36.1]           | 35-65 [19.4-36.1]            |
| AFUE %                                               | 81                          | 81                          | NA                          | NA                           |
| Steady State Efficiency (%)                          | NA                          | NA                          | 81                          | 81                           |
| No. Burners                                          | 3                           | 4                           | 4                           | 5                            |
| No. Stages                                           | 2                           | 2                           | 2                           | 2                            |
| Gas Connection Pipe Size in. [mm]                    | 1/2 [12.70]                 | 1/2 [12.70]                 | 1/2 [12.70]                 | 1/2 [12.70]                  |
| <b>Compressor</b>                                    |                             |                             |                             |                              |
| No./Stg/Type                                         | 1/2/scroll                  | 1/2/scroll                  | 1/2/scroll                  | 1/2/scroll                   |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>         | 78                          | 78                          | 80                          | 80                           |
| <b>Outdoor Coil - Fin Type</b>                       | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                 |
| Tube Type                                            | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                 |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 0.63 [16.00]                | 0.63 [16.00]                | 1.00 [25.40]                | 1.00 [25.40]                 |
| Face Area sq. ft. [sq. m]                            | 16.48 [1.53]                | 16.48 [1.53]                | 16.29 [1.51]                | 16.29 [1.51]                 |
| Rows / FPI [FPcm]                                    | 1/16 [6]                    | 1/16 [6]                    | 1/16 [6]                    | 1/16 [6]                     |
| <b>Indoor Coil - Fin Type</b>                        | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                 |
| Tube Type                                            | MicroChannel                | MicroChannel                | MicroChannel                | MicroChannel                 |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 1.00 [25.40]                | 1.00 [25.40]                | 1.00 [25.40]                | 1.00 [25.40]                 |
| Face Area sq. ft. [sq. m]                            | 7.6 [0.71]                  | 7.6 [0.71]                  | 7.6 [0.71]                  | 7.6 [0.71]                   |
| Rows / FPI [FPcm]                                    | 1/20 [8]                    | 1/20 [8]                    | 1/20 [8]                    | 1/20 [8]                     |
| Refrigerant Control                                  | TXV                         | TXV                         | TXV                         | TXV                          |
| Drain Connection No./Size in. [mm]                   | 1/0.750 [19.05]             | 1/0.750 [19.05]             | 1/0.750 [19.05]             | 1/0.750 [19.05]              |
| <b>Outdoor Fan - Type</b>                            | Propeller                   | Propeller                   | Propeller                   | Propeller                    |
| No. Used/Diameter in. [mm]                           | 1/24.0 [609.6]              | 1/24.0 [609.6]              | 1/24.0 [609.6]              | 1/24.0 [609.6]               |
| Drive Type/No. Speeds                                | Direct/                     | Direct/                     | Direct/                     | Direct/                      |
| CFM [L/s]                                            | 4300 [2029]                 | 4300 [2029]                 | 4100 [1935]                 | 4100 [1935]                  |
| No. Motors/HP                                        | 1 at 1/3                    | 1 at 1/3                    | 1 at 1/3                    | 1 at 1/3                     |
| Motor RPM                                            | 825                         | 825                         | 825                         | 825                          |
| <b>Indoor Fan - Type</b>                             | Constant CFM                | Constant CFM                | Constant CFM                | Constant CFM                 |
| No. Used/Diameter in. [mm]                           | 1/11x9 [279x229]            | 1/11x9 [279x229]            | 1/11x9 [279x229]            | 1/11x9 [279x229]             |
| Drive Type                                           | Direct                      | Direct                      | Direct                      | Direct                       |
| No. Speeds                                           | Variable Speed              | Variable Speed              | Variable Speed              | Variable Speed               |
| No. Motors                                           | 1                           | 1                           | 1                           | 1                            |
| Motor HP                                             | 1                           | 1                           | 1                           | 1                            |
| Motor RPM                                            | 1300                        | 1300                        | 1300                        | 1300                         |
| Motor Frame Size                                     |                             |                             |                             |                              |
| <b>Filter - Type</b>                                 | Field Supplied              | Field Supplied              | Field Supplied              | Field Supplied               |
| Furnished                                            | No                          | No                          | No                          | No                           |
| (NO.) Size Recommended in. [mm x mm x mm]            | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]     |
| <b>Refrigerant Charge Oz. [g]</b>                    | 80.0 [2268.0]               | 80.0 [2268.0]               | 112.0 [3175.1]              | 112.0 [3175.1]               |
| <b>Weights</b>                                       |                             |                             |                             |                              |
| Net Weight lbs. [kg]                                 | 500 [227]                   | 505 [229]                   | 505 [229]                   | 510 [231]                    |
| Ship Weight lbs. [kg]                                | 510 [231]                   | 515 [234]                   | 515 [234]                   | 520 [236]                    |

## NOMINAL SIZES 2.5 TONS [7.0-17.6 kW]

| Model RDFXYC Series                                  | 048AJV082                   | 048AJV102                    | 060ACV082                   |
|------------------------------------------------------|-----------------------------|------------------------------|-----------------------------|
| <b>Cooling Performance<sup>1</sup></b>               |                             |                              | <b>CONTINUED</b> →          |
| Nominal Cooling Capacity BTU/h [kW]                  | 48,000 [14.07]              | 48,000 [14.07]               | 60,000 [17.58]              |
| EER2/SEER2 <sup>2</sup>                              | 11.5/15.2                   | 11.5/15.2                    | 11.5/15.2                   |
| Nominal CFM/AHRI Rated CFM [L/s]                     | 1600/1430 [755/675]         | 1600/1430 [755/675]          | 2000/1820 [944/859]         |
| AHRI Net Cooling Capacity BTU/h [kW]                 | 45,500 [13.34]              | 45,500 [13.34]               | 57,000 [16.71]              |
| Net Sensible Capacity BTU/h [kW]                     | 34,200 [10.02]              | 34,200 [10.02]               | 43,000 [12.6]               |
| Net Latent Capacity BTU/h [kW]                       | 11,300 [3.31]               | 11,300 [3.31]                | 14,000 [4.1]                |
| Net System Power [kW]                                | 3.96                        | 3.96                         | 4.96                        |
| <b>Heating Performance (Heat Pumps)</b>              |                             |                              |                             |
| High Temp. BTU/h [kW] Rating                         | 45,500 [13.34]              | 45,500 [13.34]               | 55,500 [16.27]              |
| High System Power kW/COP                             | 3.65/3.65                   | 3.65/3.65                    | 4.46/3.65                   |
| Low Temp. BTU/h [kW] Rating                          | 24,600 [7.21]               | 24,600 [7.21]                | 30,200 [8.85]               |
| High System Power kW/COP                             | 3.11/2.32                   | 3.11/2.32                    | 3.93/2.25                   |
| HSPF2 (BTU/Watts-h)                                  | 7.2                         | 7.2                          | 7.2                         |
| <b>Heating Performance (Gas)<sup>3</sup></b>         |                             |                              |                             |
| Heating Input BTU/h [kW] (1st Stage/2nd Stage)       | 56,000/80,000 [16.41/23.44] | 70,000/100,000 [20.51/29.30] | 56,000/80,000 [16.41/23.44] |
| Heating Output BTU/h [kW] (1st Stage/2nd Stage)      | 45,360/64,800 [13.29/18.99] | 56,700/81,000 [16.62/23.74]  | 45,360/64,800 [13.29/18.99] |
| Temperature Rise Range °F [°C]                       | 25-55 [13.9-30.6]           | 25-55 [13.9-30.6]            | 25-55 [13.9-30.6]           |
| (1st Stage/2nd Stage)                                | 35-65 [19.4-36.1]           | 35-65 [19.4-36.1]            | 35-65 [19.4-36.1]           |
| AFUE %                                               | 81                          | 81                           | NA                          |
| Steady State Efficiency (%)                          | NA                          | NA                           | 81                          |
| No. Burners                                          | 4                           | 5                            | 4                           |
| No. Stages                                           | 2                           | 2                            | 2                           |
| Gas Connection Pipe Size in. [mm]                    | 1/2 [12.70]                 | 1/2 [12.70]                  | 1/2 [12.70]                 |
| <b>Compressor</b>                                    |                             |                              |                             |
| No./Stg/Type                                         | 1/2/scroll                  | 1/2/scroll                   | 1/2/scroll                  |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>         | 80                          | 80                           | 81                          |
| <b>Outdoor Coil - Fin Type</b>                       | MicroChannel                | MicroChannel                 | MicroChannel                |
| Tube Type                                            | MicroChannel                | MicroChannel                 | MicroChannel                |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 1.00 [25.40]                | 1.00 [25.40]                 | 1.26 [32.00]                |
| Face Area sq. ft. [sq. m]                            | 16.29 [1.51]                | 16.29 [1.51]                 | 16.19 [1.50]                |
| Rows / FPI [FPcm]                                    | 1/16 [6]                    | 1/16 [6]                     | 1/16 [6]                    |
| <b>Indoor Coil - Fin Type</b>                        | MicroChannel                | MicroChannel                 | MicroChannel                |
| Tube Type                                            | MicroChannel                | MicroChannel                 | MicroChannel                |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm] | 1.00 [25.40]                | 1.00 [25.40]                 | 1.26 [32.00]                |
| Face Area sq. ft. [sq. m]                            | 7.6 [0.71]                  | 7.6 [0.71]                   | 7.6 [0.71]                  |
| Rows / FPI [FPcm]                                    | 1/20 [8]                    | 1/20 [8]                     | 1/20 [8]                    |
| Refrigerant Control                                  | TXV                         | TXV                          | TXV                         |
| Drain Connection No./Size in. [mm]                   | 1/0.750 [19.05]             | 1/0.750 [19.05]              | 1/0.750 [19.05]             |
| <b>Outdoor Fan - Type</b>                            | Propeller                   | Propeller                    | Propeller                   |
| No. Used/Diameter in. [mm]                           | 1/24.0 [609.6]              | 1/24.0 [609.6]               | 1/24.0 [609.6]              |
| Drive Type/No. Speeds                                | Direct/                     | Direct/                      | Direct/                     |
| CFM [L/s]                                            | 4100 [1935]                 | 4100 [1935]                  | 4300 [2029]                 |
| No. Motors/HP                                        | 1 at 1/3                    | 1 at 1/3                     | 1 at 1/2                    |
| Motor RPM                                            | 825                         | 825                          | 740/935                     |
| <b>Indoor Fan - Type</b>                             | Constant CFM                | Constant CFM                 | Constant CFM                |
| No. Used/Diameter in. [mm]                           | 1/11x9 [279x229]            | 1/11x9 [279x229]             | 1/11x9 [279x229]            |
| Drive Type                                           | Direct                      | Direct                       | Direct                      |
| No. Speeds                                           | Variable Speed              | Variable Speed               | Variable Speed              |
| No. Motors                                           | 1                           | 1                            | 1                           |
| Motor HP                                             | 1                           | 1                            | 1                           |
| Motor RPM                                            | 1300                        | 1300                         | 1300                        |
| Motor Frame Size                                     |                             |                              |                             |
| <b>Filter - Type</b>                                 | Field Supplied              | Field Supplied               | Field Supplied              |
| Furnished                                            | No                          | No                           | No                          |
| (NO.) Size Recommended in. [mm x mm x mm]            | (2) 1x16x30 [25x406x762]    | (2) 1x16x30 [25x406x762]     | (2) 1x16x30 [25x406x762]    |
| <b>Refrigerant Charge Oz. [g]</b>                    | 112.0 [3175.1]              | 112.0 [3175.1]               | 139.0 [3940.6]              |
| <b>Weights</b>                                       |                             |                              |                             |
| Net Weight lbs. [kg]                                 | 505 [229]                   | 510 [231]                    | 510 [231]                   |
| Ship Weight lbs. [kg]                                | 515 [234]                   | 520 [236]                    | 520 [236]                   |

See Page 13 for Notes.

[ ] Designates Metric Conversions

## NOMINAL SIZES 2.5 TONS [7.0-17.6 kW]

| Model RDFXYC Series                                     | 060ACV102                              | 060AJV082                              | 060AJV102                              |
|---------------------------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|
| <b>Cooling Performance<sup>1</sup></b>                  |                                        |                                        |                                        |
| Nominal Cooling Capacity BTU/h [kW]                     | 60,000 [17.58]                         | 60,000 [17.58]                         | 60,000 [17.58]                         |
| EER2/SEER2 <sup>2</sup>                                 | 11.5/15.2                              | 11.5/15.2                              | 11.5/15.2                              |
| Nominal CFM/AHRI Rated CFM [L/s]                        | 2000/1820 [944/859]                    | 2000/1820 [944/859]                    | 2000/1820 [944/859]                    |
| AHRI Net Cooling Capacity BTU/h [kW]                    | 57,000 [16.71]                         | 57,000 [16.71]                         | 57,000 [16.71]                         |
| Net Sensible Capacity BTU/h [kW]                        | 43,000 [12.6]                          | 43,000 [12.6]                          | 43,000 [12.6]                          |
| Net Latent Capacity BTU/h [kW]                          | 14,000 [4.1]                           | 14,000 [4.1]                           | 14,000 [4.1]                           |
| Net System Power [kW]                                   | 4.96                                   | 4.96                                   | 4.96                                   |
| <b>Heating Performance (Heat Pumps)</b>                 |                                        |                                        |                                        |
| High Temp. BTU/h [kW] Rating                            | 55,500 [16.27]                         | 55,500 [16.27]                         | 55,500 [16.27]                         |
| High System Power kW/COP                                | 4.46/3.65                              | 4.46/3.65                              | 4.46/3.65                              |
| Low Temp. BTU/h [kW] Rating                             | 30,200 [8.85]                          | 30,200 [8.85]                          | 30,200 [8.85]                          |
| High System Power kW/COP                                | 3.93/2.25                              | 3.93/2.25                              | 3.93/2.25                              |
| HSPF2 (BTU/Watts-h)                                     | 7.2                                    | 7.2                                    | 7.2                                    |
| <b>Heating Performance (Gas)<sup>3</sup></b>            |                                        |                                        |                                        |
| Heating Input BTU/h [kW] (1st Stage/2nd Stage)          | 70,000/100,000 [20.51/29.30]           | 56,000/80,000 [16.41/23.44]            | 70,000/100,000 [20.51/29.30]           |
| Heating Output BTU/h [kW] (1st Stage/2nd Stage)         | 56,700/81,000 [16.62/23.74]            | 45,360/64,800 [13.29/18.99]            | 56,700/81,000 [16.62/23.74]            |
| Temperature Rise Range °F [°C]<br>(1st Stage/2nd Stage) | 25-55 [13.9-30.6]<br>35-65 [19.4-36.1] | 25-55 [13.9-30.6]<br>35-65 [19.4-36.1] | 25-55 [13.9-30.6]<br>35-65 [19.4-36.1] |
| AFUE %                                                  | NA                                     | 81                                     | 81                                     |
| Steady State Efficiency (%)                             | 81                                     | NA                                     | NA                                     |
| No. Burners                                             | 5                                      | 4                                      | 5                                      |
| No. Stages                                              | 2                                      | 2                                      | 2                                      |
| Gas Connection Pipe Size in. [mm]                       | 1/2 [12.70]                            | 1/2 [12.70]                            | 1/2 [12.70]                            |
| <b>Compressor</b>                                       |                                        |                                        |                                        |
| No./Stg/Type                                            | 1/2/scroll                             | 1/2/scroll                             | 1/2/scroll                             |
| <b>Outdoor Sound Rating (dB)<sup>4</sup></b>            |                                        |                                        |                                        |
|                                                         | 81                                     | 81                                     | 81                                     |
| <b>Outdoor Coil - Fin Type</b>                          |                                        |                                        |                                        |
| Tube Type                                               | MicroChannel                           | MicroChannel                           | MicroChannel                           |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm]    | 1.26 [32.00]                           | 1.26 [32.00]                           | 1.26 [32.00]                           |
| Face Area sq. ft. [sq. m]                               | 16.19 [1.50]                           | 16.19 [1.50]                           | 16.19 [1.50]                           |
| Rows / FPI [FPcm]                                       | 1/16 [6]                               | 1/16 [6]                               | 1/16 [6]                               |
| <b>Indoor Coil - Fin Type</b>                           |                                        |                                        |                                        |
| Tube Type                                               | MicroChannel                           | MicroChannel                           | MicroChannel                           |
| Rifled: Tube Size OD or MicroChannel: Depth in. [mm]    | 1.26 [32.00]                           | 1.26 [32.00]                           | 1.26 [32.00]                           |
| Face Area sq. ft. [sq. m]                               | 7.6 [0.71]                             | 7.6 [0.71]                             | 7.6 [0.71]                             |
| Rows / FPI [FPcm]                                       | 1/20 [8]                               | 1/20 [8]                               | 1/20 [8]                               |
| Refrigerant Control                                     | TXV                                    | TXV                                    | TXV                                    |
| Drain Connection No./Size in. [mm]                      | 1/0.750 [19.05]                        | 1/0.750 [19.05]                        | 1/0.750 [19.05]                        |
| <b>Outdoor Fan - Type</b>                               |                                        |                                        |                                        |
|                                                         | Propeller                              | Propeller                              | Propeller                              |
| No. Used/Diameter in. [mm]                              | 1/24.0 [609.6]                         | 1/24.0 [609.6]                         | 1/24.0 [609.6]                         |
| Drive Type/No. Speeds                                   | Direct/                                | Direct/                                | Direct/                                |
| CFM [L/s]                                               | 4300 [2029]                            | 4300 [2029]                            | 4300 [2029]                            |
| No. Motors/HP                                           | 1 at 1/2                               | 1 at 1/2                               | 1 at 1/2                               |
| Motor RPM                                               | 740/935                                | 740/935                                | 740/935                                |
| <b>Indoor Fan - Type</b>                                |                                        |                                        |                                        |
|                                                         | Constant CFM                           | Constant CFM                           | Constant CFM                           |
| No. Used/Diameter in. [mm]                              | 1/11x9 [279x229]                       | 1/11x9 [279x229]                       | 1/11x9 [279x229]                       |
| Drive Type                                              | Direct                                 | Direct                                 | Direct                                 |
| No. Speeds                                              | Variable Speed                         | Variable Speed                         | Variable Speed                         |
| No. Motors                                              | 1                                      | 1                                      | 1                                      |
| Motor HP                                                | 1                                      | 1                                      | 1                                      |
| Motor RPM                                               | 1300                                   | 1300                                   | 1300                                   |
| Motor Frame Size                                        |                                        |                                        |                                        |
| <b>Filter - Type</b>                                    |                                        |                                        |                                        |
| Furnished                                               | No                                     | No                                     | No                                     |
| (NO.) Size Recommended in. [mm x mm x mm]               | (2) 1x16x30 [25x406x762]               | (2) 1x16x30 [25x406x762]               | (2) 1x16x30 [25x406x762]               |
| <b>Refrigerant Charge Oz. [g]</b>                       |                                        |                                        |                                        |
|                                                         | 139.0 [3940.6]                         | 139.0 [3940.6]                         | 139.0 [3940.6]                         |
| <b>Weights</b>                                          |                                        |                                        |                                        |
| Net Weight lbs. [kg]                                    | 515 [234]                              | 510 [231]                              | 515 [234]                              |
| Ship Weight lbs. [kg]                                   | 525 [238]                              | 520 [236]                              | 525 [238]                              |

## NOTES:

1. Cooling Performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to  $\pm 20\%$  of nominal cfm. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER2 and/or SEER2 are rated at AHRI conditions and in accordance with DOE test procedures.
3. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using American National Standard Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.
4. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

## COOLING PERFORMANCE DATA—RDFXYC024

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE①         |               |                                                |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |                                 |
|--------------------------------------------------|---------------|------------------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| wbE                                              |               |                                                | 71°F [21.7°C]                   |                                 |                                 | 67°F [19.4°C]                   |                                 |                                 | 63°F [17.2°C]                   |                                 |                                 |
| CFM [L/s]                                        |               |                                                | 900 [425]                       | 850 [401]                       | 700 [330]                       | 900 [425]                       | 850 [401]                       | 700 [330]                       | 900 [425]                       | 850 [401]                       | 700 [330]                       |
| DR ①                                             |               |                                                | .05                             | .09                             | .12                             | .05                             | .09                             | .12                             | .05                             | .09                             | .12                             |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 75<br>[23.9]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 30.6 [9.0]<br>19.9 [5.8]<br>1.6 | 30.3 [8.9]<br>19.4 [5.7]<br>1.6 | 29.3 [8.6]<br>17.8 [5.2]<br>1.6 | 29.7 [8.7]<br>21.9 [6.4]<br>1.6 | 29.4 [8.6]<br>21.3 [6.2]<br>1.6 | 28.4 [8.3]<br>19.6 [5.7]<br>1.6 | 28.8 [8.4]<br>23.9 [7.0]<br>1.6 | 28.5 [8.4]<br>23.3 [6.8]<br>1.6 | 27.5 [8.1]<br>21.4 [6.3]<br>1.6 |
|                                                  | 80<br>[26.7]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 29.9 [8.8]<br>19.6 [5.7]<br>1.7 | 29.6 [8.7]<br>19.1 [5.6]<br>1.7 | 28.6 [8.4]<br>17.5 [5.1]<br>1.7 | 29.0 [8.5]<br>21.6 [6.3]<br>1.7 | 28.7 [8.4]<br>21.0 [6.2]<br>1.7 | 27.8 [8.1]<br>19.3 [5.7]<br>1.7 | 28.1 [8.2]<br>23.6 [6.9]<br>1.7 | 27.8 [8.1]<br>23.0 [6.7]<br>1.7 | 26.9 [7.9]<br>21.1 [6.2]<br>1.7 |
|                                                  | 85<br>[29.4]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 29.1 [8.5]<br>19.2 [5.6]<br>1.8 | 28.8 [8.4]<br>18.7 [5.5]<br>1.8 | 27.9 [8.2]<br>17.2 [5.0]<br>1.8 | 28.2 [8.3]<br>21.2 [6.2]<br>1.8 | 27.9 [8.2]<br>20.7 [6.1]<br>1.8 | 27.0 [7.9]<br>19.0 [5.6]<br>1.8 | 27.3 [8.0]<br>23.2 [6.8]<br>1.8 | 27.0 [7.9]<br>22.6 [6.6]<br>1.8 | 26.1 [7.6]<br>20.7 [6.1]<br>1.8 |
|                                                  | 90<br>[32.2]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 28.2 [8.3]<br>18.8 [5.5]<br>1.9 | 27.9 [8.2]<br>18.3 [5.4]<br>1.9 | 27.0 [7.9]<br>16.8 [4.9]<br>1.9 | 27.3 [8.0]<br>20.8 [6.1]<br>1.9 | 27.0 [7.9]<br>20.3 [5.9]<br>1.9 | 26.1 [7.6]<br>18.6 [5.5]<br>1.9 | 26.4 [7.7]<br>22.8 [6.7]<br>1.9 | 26.1 [7.6]<br>22.2 [6.5]<br>1.9 | 25.2 [7.4]<br>20.4 [6.0]<br>1.9 |
|                                                  | 95<br>[35]    | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 27.2 [8.0]<br>18.4 [5.4]<br>2.0 | 26.9 [7.9]<br>17.9 [5.2]<br>2.0 | 26.1 [7.6]<br>16.5 [4.8]<br>2.0 | 26.3 [7.7]<br>20.4 [6.0]<br>2.0 | 26.0 [7.6]<br>19.9 [5.8]<br>2.0 | 25.2 [7.4]<br>18.2 [5.3]<br>2.0 | 25.4 [7.4]<br>22.4 [6.6]<br>2.0 | 25.1 [7.4]<br>21.8 [6.4]<br>2.0 | 24.3 [7.1]<br>20.0 [5.9]<br>2.0 |
|                                                  | 100<br>[37.8] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 26.1 [7.6]<br>18.0 [5.3]<br>2.1 | 25.8 [7.6]<br>17.5 [5.1]<br>2.1 | 25.0 [7.3]<br>16.1 [4.7]<br>2.1 | 25.2 [7.4]<br>20.0 [5.9]<br>2.1 | 24.9 [7.3]<br>19.5 [5.7]<br>2.1 | 24.1 [7.1]<br>17.9 [5.2]<br>2.1 | 24.3 [7.1]<br>22.0 [6.4]<br>2.1 | 24.0 [7.0]<br>21.4 [6.3]<br>2.1 | 23.2 [6.8]<br>19.6 [5.7]<br>2.1 |
|                                                  | 105<br>[40.6] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 24.9 [7.3]<br>17.5 [5.1]<br>2.2 | 24.7 [7.2]<br>17.1 [5.0]<br>2.2 | 23.9 [7.0]<br>15.7 [4.6]<br>2.2 | 24.0 [7.0]<br>19.5 [5.7]<br>2.3 | 23.7 [6.9]<br>19.0 [5.6]<br>2.2 | 23.0 [6.7]<br>17.4 [5.1]<br>2.2 | 23.1 [6.8]<br>21.5 [6.3]<br>2.3 | 22.8 [6.7]<br>21.0 [6.2]<br>2.2 | 22.1 [6.5]<br>19.2 [5.6]<br>2.2 |
|                                                  | 110<br>[43.3] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 23.6 [6.9]<br>17.0 [5.0]<br>2.4 | 23.4 [6.9]<br>16.6 [4.9]<br>2.4 | 22.6 [6.6]<br>15.2 [4.5]<br>2.3 | 22.7 [6.7]<br>19.0 [5.6]<br>2.4 | 22.5 [6.6]<br>18.5 [5.4]<br>2.4 | 21.7 [6.4]<br>17.0 [5.0]<br>2.3 | 21.8 [6.4]<br>21.1 [6.2]<br>2.4 | 21.5 [6.3]<br>20.5 [6.0]<br>2.4 | 20.9 [6.1]<br>18.8 [5.5]<br>2.3 |
|                                                  | 115<br>[46.1] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 22.2 [6.5]<br>16.5 [4.8]<br>2.5 | 22.0 [6.4]<br>16.1 [4.7]<br>2.5 | 21.3 [6.2]<br>14.8 [4.3]<br>2.5 | 21.3 [6.2]<br>18.5 [5.4]<br>2.5 | 21.1 [6.2]<br>18.0 [5.3]<br>2.5 | 20.4 [6.0]<br>16.6 [4.9]<br>2.5 | 20.4 [6.0]<br>20.4 [6.0]<br>2.5 | 20.2 [5.9]<br>20.0 [5.9]<br>2.5 | 19.5 [5.7]<br>18.4 [5.4]<br>2.5 |
|                                                  | 120<br>[48.9] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 20.7 [6.1]<br>16.0 [4.7]<br>2.7 | 20.5 [6.0]<br>15.6 [4.6]<br>2.6 | 19.9 [5.8]<br>14.3 [4.2]<br>2.6 | 19.8 [5.8]<br>18.0 [5.3]<br>2.7 | 19.6 [5.7]<br>17.5 [5.1]<br>2.7 | 19.0 [5.6]<br>16.1 [4.7]<br>2.6 | 18.9 [5.5]<br>18.9 [5.5]<br>2.7 | 18.7 [5.5]<br>18.7 [5.5]<br>2.7 | 18.1 [5.3]<br>17.9 [5.2]<br>2.6 |
|                                                  | 125<br>[51.7] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 19.1 [5.6]<br>15.4 [4.5]<br>2.8 | 18.9 [5.5]<br>15.0 [4.4]<br>2.8 | 18.3 [5.4]<br>13.8 [4.0]<br>2.8 | 18.2 [5.3]<br>17.4 [5.1]<br>2.8 | 18.0 [5.3]<br>17.0 [5.0]<br>2.8 | 17.4 [5.1]<br>15.6 [4.6]<br>2.8 | 17.3 [5.1]<br>17.3 [5.1]<br>2.8 | 17.1 [5.0]<br>17.1 [5.0]<br>2.8 | 16.6 [4.9]<br>16.6 [4.9]<br>2.8 |

DR —Depression ratio  
dbE—Entering air dry bulb  
wbE—Entering air wet bulb

Total —Total capacity x 1000 kBtu/h  
Sens —Sensible capacity x 1000 kBtu/h  
Power—kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions



## COOLING PERFORMANCE DATA—RDFXYC036

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |               |                                                |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|-------------------------------------------|---------------|------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| wbE                                       |               |                                                | 71°F [21.7°C]                    |                                  |                                  | 67°F [19.4°C]                    |                                  |                                  | 63°F [17.2°C]                    |                                  |                                  |
| CFM [L/s]                                 |               |                                                | 1350 [637]                       | 1225 [578]                       | 1050 [496]                       | 1350 [637]                       | 1225 [578]                       | 1050 [496]                       | 1350 [637]                       | 1225 [578]                       | 1050 [496]                       |
| DR ①                                      |               |                                                | .05                              | .09                              | .12                              | .05                              | .09                              | .12                              | .05                              | .09                              | .12                              |
| OUTDOOR DRY BULB TEMPERATURE<br>°F [°C]   | 75<br>[23.9]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 50.7 [14.9]<br>29.0 [8.5]<br>2.5 | 49.8 [14.6]<br>27.7 [8.1]<br>2.5 | 48.5 [14.2]<br>25.8 [7.6]<br>2.5 | 42.2 [12.4]<br>31.6 [9.3]<br>2.5 | 41.4 [12.1]<br>30.1 [8.8]<br>2.5 | 40.3 [11.8]<br>28.1 [8.2]<br>2.5 | 38.6 [11.3]<br>33.9 [9.9]<br>2.5 | 37.9 [11.1]<br>32.4 [9.5]<br>2.5 | 36.9 [10.8]<br>30.2 [8.9]<br>2.5 |
|                                           | 80<br>[26.7]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 49.7 [14.6]<br>28.5 [8.4]<br>2.7 | 48.8 [14.3]<br>27.2 [8.0]<br>2.6 | 47.5 [13.9]<br>25.4 [7.4]<br>2.6 | 41.2 [12.1]<br>31.1 [9.1]<br>2.6 | 40.4 [11.8]<br>29.7 [8.7]<br>2.6 | 39.4 [11.5]<br>27.7 [8.1]<br>2.6 | 37.6 [11.0]<br>33.5 [9.8]<br>2.6 | 36.9 [10.8]<br>31.9 [9.3]<br>2.6 | 35.9 [10.5]<br>29.8 [8.7]<br>2.6 |
|                                           | 85<br>[29.4]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 48.7 [14.3]<br>28.0 [8.2]<br>2.8 | 47.8 [14.0]<br>26.8 [7.9]<br>2.7 | 46.6 [13.7]<br>25.0 [7.3]<br>2.7 | 40.2 [11.8]<br>30.6 [9.0]<br>2.7 | 39.4 [11.5]<br>29.2 [8.6]<br>2.7 | 38.4 [11.3]<br>27.3 [8.0]<br>2.7 | 36.6 [10.7]<br>33.0 [9.7]<br>2.7 | 35.9 [10.5]<br>31.5 [9.2]<br>2.7 | 35.0 [10.3]<br>29.4 [8.6]<br>2.7 |
|                                           | 90<br>[32.2]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 47.7 [14.0]<br>27.6 [8.1]<br>2.9 | 46.8 [13.7]<br>26.3 [7.7]<br>2.9 | 45.6 [13.4]<br>24.6 [7.2]<br>2.8 | 39.1 [11.5]<br>30.2 [8.9]<br>2.9 | 38.4 [11.3]<br>28.8 [8.4]<br>2.8 | 37.4 [11.0]<br>26.9 [7.9]<br>2.8 | 35.6 [10.4]<br>32.5 [9.5]<br>2.8 | 34.9 [10.2]<br>31.0 [9.1]<br>2.8 | 34.0 [10.0]<br>29.0 [8.5]<br>2.8 |
|                                           | 95<br>[35]    | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 46.6 [13.7]<br>27.1 [7.9]<br>3.0 | 45.8 [13.4]<br>25.9 [7.6]<br>3.0 | 44.6 [13.1]<br>24.2 [7.1]<br>3.0 | 38.1 [11.2]<br>29.7 [8.7]<br>3.0 | 37.4 [11.0]<br>28.4 [8.3]<br>3.0 | 36.4 [10.7]<br>26.5 [7.8]<br>2.9 | 34.5 [10.1]<br>32.1 [9.4]<br>3.0 | 33.9 [9.9]<br>30.6 [9.0]<br>2.9  | 33.0 [9.7]<br>28.6 [8.4]<br>2.9  |
|                                           | 100<br>[37.8] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 45.5 [13.3]<br>26.6 [7.8]<br>3.2 | 44.7 [13.1]<br>25.4 [7.4]<br>3.1 | 43.5 [12.7]<br>23.7 [6.9]<br>3.1 | 37.0 [10.8]<br>29.2 [8.6]<br>3.1 | 36.3 [10.6]<br>27.9 [8.2]<br>3.1 | 35.4 [10.4]<br>26.1 [7.6]<br>3.1 | 33.4 [9.8]<br>31.6 [9.3]<br>3.1  | 32.8 [9.6]<br>30.2 [8.9]<br>3.1  | 31.9 [9.3]<br>28.2 [8.3]<br>3.0  |
|                                           | 105<br>[40.6] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 44.4 [13.0]<br>26.2 [7.7]<br>3.3 | 43.6 [12.8]<br>25.0 [7.3]<br>3.3 | 42.5 [12.5]<br>23.3 [6.8]<br>3.2 | 35.9 [10.5]<br>28.8 [8.4]<br>3.3 | 35.2 [10.3]<br>27.5 [8.1]<br>3.3 | 34.3 [10.1]<br>25.6 [7.5]<br>3.2 | 32.3 [9.5]<br>31.1 [9.1]<br>3.3  | 31.7 [9.3]<br>29.7 [8.7]<br>3.2  | 30.9 [9.1]<br>27.7 [8.1]<br>3.2  |
|                                           | 110<br>[43.3] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 43.3 [12.7]<br>25.7 [7.5]<br>3.5 | 42.5 [12.5]<br>24.6 [7.2]<br>3.4 | 41.4 [12.1]<br>22.9 [6.7]<br>3.4 | 34.7 [10.2]<br>28.3 [8.3]<br>3.4 | 34.1 [10.0]<br>27.0 [7.9]<br>3.4 | 33.2 [9.7]<br>25.2 [7.4]<br>3.4  | 31.1 [9.1]<br>30.7 [9.0]<br>3.4  | 30.6 [9.0]<br>29.3 [8.6]<br>3.4  | 29.8 [8.7]<br>27.3 [8.0]<br>3.3  |
|                                           | 115<br>[46.1] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 42.1 [12.3]<br>25.3 [7.4]<br>3.6 | 41.3 [12.1]<br>24.1 [7.1]<br>3.6 | 40.3 [11.8]<br>22.5 [6.6]<br>3.6 | 33.6 [9.8]<br>27.9 [8.2]<br>3.6  | 32.9 [9.6]<br>26.6 [7.8]<br>3.6  | 32.1 [9.4]<br>24.8 [7.3]<br>3.5  | 30.0 [8.8]<br>30.0 [8.8]<br>3.6  | 29.4 [8.6]<br>28.8 [8.4]<br>3.6  | 28.7 [8.4]<br>26.9 [7.9]<br>3.5  |
|                                           | 120<br>[48.9] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 40.9 [12.0]<br>24.8 [7.3]<br>3.8 | 40.1 [11.8]<br>23.7 [6.9]<br>3.8 | 39.1 [11.5]<br>22.1 [6.5]<br>3.7 | 32.4 [9.5]<br>27.4 [8.0]<br>3.8  | 31.8 [9.3]<br>26.2 [7.7]<br>3.8  | 30.9 [9.1]<br>24.4 [7.2]<br>3.7  | 28.8 [8.4]<br>28.8 [8.4]<br>3.8  | 28.2 [8.3]<br>28.2 [8.3]<br>3.7  | 27.5 [8.1]<br>26.5 [7.8]<br>3.7  |
|                                           | 125<br>[51.7] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 39.7 [11.6]<br>24.4 [7.2]<br>4.0 | 38.9 [11.4]<br>23.2 [6.8]<br>4.0 | 37.9 [11.1]<br>21.7 [6.4]<br>3.9 | 31.1 [9.1]<br>27.0 [7.9]<br>4.0  | 30.6 [9.0]<br>25.7 [7.5]<br>3.9  | 29.8 [8.7]<br>24.0 [7.0]<br>3.9  | 27.5 [8.1]<br>27.5 [8.1]<br>3.9  | 27.0 [7.9]<br>27.0 [7.9]<br>3.9  | 26.3 [7.7]<br>26.1 [7.6]<br>3.9  |

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 kBtu/h  
Sens —Sensible capacity x 1000 kBtu/h  
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## COOLING PERFORMANCE DATA—RDFXYC048

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①        |               |                                                |                                   |                                  |                                  |                                   |                                   |                                   |                                   |                                   |                                   |
|--------------------------------------------------|---------------|------------------------------------------------|-----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| wbE                                              |               |                                                | 71°F [21.7°C]                     |                                  |                                  | 67°F [19.4°C]                     |                                   |                                   | 63°F [17.2°C]                     |                                   |                                   |
| CFM [L/s]                                        |               |                                                | 1800 [850]                        | 1425 [673]                       | 1400 [661]                       | 1800 [850]                        | 1425 [673]                        | 1400 [661]                        | 1800 [850]                        | 1425 [673]                        | 1400 [661]                        |
| DR ①                                             |               |                                                | .05                               | .09                              | .12                              | .05                               | .09                               | .12                               | .05                               | .09                               | .12                               |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 75<br>[23.9]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 59.6 [17.5]<br>35.4 [10.4]<br>3.4 | 56.8 [16.6]<br>31.5 [9.2]<br>3.3 | 56.7 [16.6]<br>31.3 [9.2]<br>3.3 | 55.8 [16.4]<br>41.3 [12.1]<br>3.3 | 53.2 [15.6]<br>36.8 [10.8]<br>3.3 | 53.1 [15.6]<br>36.5 [10.7]<br>3.3 | 52.5 [15.4]<br>47.4 [13.9]<br>3.3 | 50.1 [14.7]<br>42.2 [12.4]<br>3.2 | 49.9 [14.6]<br>41.8 [12.3]<br>3.2 |
|                                                  | 80<br>[26.7]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 58.3 [17.1]<br>34.7 [10.2]<br>3.5 | 55.6 [16.3]<br>30.9 [9.1]<br>3.4 | 55.4 [16.2]<br>30.6 [9.0]<br>3.4 | 54.5 [16.0]<br>40.6 [11.9]<br>3.5 | 52.0 [15.2]<br>36.2 [10.6]<br>3.4 | 51.8 [15.2]<br>35.9 [10.5]<br>3.4 | 51.2 [15.0]<br>46.6 [13.7]<br>3.5 | 48.9 [14.3]<br>41.5 [12.2]<br>3.4 | 48.7 [14.3]<br>41.2 [12.1]<br>3.4 |
|                                                  | 85<br>[29.4]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 56.9 [16.7]<br>34.0 [10.0]<br>3.7 | 54.3 [15.9]<br>30.3 [8.9]<br>3.6 | 54.2 [15.9]<br>30.0 [8.8]<br>3.6 | 53.2 [15.6]<br>39.9 [11.7]<br>3.7 | 50.7 [14.9]<br>35.5 [10.4]<br>3.6 | 50.6 [14.8]<br>35.2 [10.3]<br>3.6 | 49.9 [14.6]<br>45.9 [13.5]<br>3.6 | 47.6 [14.0]<br>40.9 [12.0]<br>3.6 | 47.4 [13.9]<br>40.6 [11.9]<br>3.5 |
|                                                  | 90<br>[32.2]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 55.5 [16.3]<br>33.3 [9.8]<br>3.9  | 53.0 [15.5]<br>29.7 [8.7]<br>3.8 | 52.8 [15.5]<br>29.4 [8.6]<br>3.8 | 51.7 [15.2]<br>39.2 [11.5]<br>3.9 | 49.4 [14.5]<br>34.9 [10.2]<br>3.8 | 49.2 [14.4]<br>34.6 [10.1]<br>3.8 | 48.5 [14.2]<br>45.2 [13.2]<br>3.8 | 46.3 [13.6]<br>40.3 [11.8]<br>3.7 | 46.1 [13.5]<br>40.0 [11.7]<br>3.7 |
|                                                  | 95<br>[35]    | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 54.1 [15.9]<br>32.6 [9.6]<br>4.1  | 51.6 [15.1]<br>29.0 [8.5]<br>4.0 | 51.4 [15.1]<br>28.8 [8.4]<br>4.0 | 50.3 [14.7]<br>38.5 [11.3]<br>4.1 | 48.0 [14.1]<br>34.3 [10.1]<br>4.0 | 47.8 [14.0]<br>34.0 [10.0]<br>4.0 | 47.0 [13.8]<br>44.6 [13.1]<br>4.0 | 44.9 [13.2]<br>39.7 [11.6]<br>3.9 | 44.7 [13.1]<br>39.4 [11.5]<br>3.9 |
|                                                  | 100<br>[37.8] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 52.5 [15.4]<br>31.9 [9.3]<br>4.3  | 50.1 [14.7]<br>28.5 [8.4]<br>4.2 | 50.0 [14.7]<br>28.2 [8.3]<br>4.2 | 48.7 [14.3]<br>37.9 [11.1]<br>4.3 | 46.5 [13.6]<br>33.7 [9.9]<br>4.2  | 46.4 [13.6]<br>33.4 [9.8]<br>4.2  | 45.5 [13.3]<br>43.9 [12.9]<br>4.3 | 43.4 [12.7]<br>39.1 [11.5]<br>4.2 | 43.2 [12.7]<br>38.8 [11.4]<br>4.2 |
|                                                  | 105<br>[40.6] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 50.9 [14.9]<br>31.3 [9.2]<br>4.6  | 48.6 [14.2]<br>27.9 [8.2]<br>4.5 | 48.4 [14.2]<br>27.6 [8.1]<br>4.5 | 47.1 [13.8]<br>37.2 [10.9]<br>4.6 | 45.0 [13.2]<br>33.1 [9.7]<br>4.5  | 44.8 [13.1]<br>32.9 [9.6]<br>4.4  | 43.9 [12.9]<br>43.3 [12.7]<br>4.5 | 41.9 [12.3]<br>38.5 [11.3]<br>4.4 | 41.7 [12.2]<br>38.2 [11.2]<br>4.4 |
|                                                  | 110<br>[43.3] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 49.3 [14.4]<br>30.7 [9.0]<br>4.9  | 47.0 [13.8]<br>27.3 [8.0]<br>4.8 | 46.9 [13.7]<br>27.1 [7.9]<br>4.7 | 45.5 [13.3]<br>36.6 [10.7]<br>4.8 | 43.4 [12.7]<br>32.6 [9.6]<br>4.7  | 43.2 [12.7]<br>32.3 [9.5]<br>4.7  | 42.2 [12.4]<br>42.2 [12.4]<br>4.8 | 40.3 [11.8]<br>38.0 [11.1]<br>4.7 | 40.1 [11.8]<br>37.6 [11.0]<br>4.7 |
|                                                  | 115<br>[46.1] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 47.5 [13.9]<br>30.0 [8.8]<br>5.2  | 45.3 [13.3]<br>26.8 [7.9]<br>5.0 | 45.2 [13.2]<br>26.5 [7.8]<br>5.0 | 43.7 [12.8]<br>36.0 [10.6]<br>5.1 | 41.7 [12.2]<br>32.0 [9.4]<br>5.0  | 41.6 [12.2]<br>31.8 [9.3]<br>5.0  | 40.5 [11.9]<br>40.5 [11.9]<br>5.1 | 38.6 [11.3]<br>37.4 [11.0]<br>5.0 | 38.5 [11.3]<br>37.1 [10.9]<br>5.0 |
|                                                  | 120<br>[48.9] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 45.7 [13.4]<br>29.4 [8.6]<br>5.5  | 43.6 [12.8]<br>26.2 [7.7]<br>5.3 | 43.5 [12.7]<br>26.0 [7.6]<br>5.3 | 41.9 [12.3]<br>35.3 [10.3]<br>5.4 | 40.0 [11.7]<br>31.5 [9.2]<br>5.3  | 39.9 [11.7]<br>31.2 [9.1]<br>5.3  | 38.7 [11.3]<br>38.7 [11.3]<br>5.4 | 36.9 [10.8]<br>36.9 [10.8]<br>5.3 | 36.8 [10.8]<br>36.6 [10.7]<br>5.3 |
|                                                  | 125<br>[51.7] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 43.9 [12.9]<br>28.8 [8.4]<br>5.8  | 41.9 [12.3]<br>25.7 [7.5]<br>5.7 | 41.7 [12.2]<br>25.5 [7.5]<br>5.7 | 40.1 [11.8]<br>34.8 [10.2]<br>5.8 | 38.2 [11.2]<br>31.0 [9.1]<br>5.6  | 38.1 [11.2]<br>30.7 [9.0]<br>5.6  | 36.8 [10.8]<br>36.8 [10.8]<br>5.7 | 35.1 [10.3]<br>35.1 [10.3]<br>5.6 | 35.0 [10.3]<br>35.0 [10.3]<br>5.6 |

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 kBtu/h  
Sens —Sensible capacity x 1000 kBtu/h  
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

# COOLING PERFORMANCE DATA—RDFXYC060

| ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ① |               |                                                |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |                                   |
|-------------------------------------------|---------------|------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| wbE                                       |               |                                                | 71°F [21.7°C]                     |                                   |                                   | 67°F [19.4°C]                     |                                   |                                   | 63°F [17.2°C]                     |                                   |                                   |
| CFM [L/s]                                 |               |                                                | 2250 [1062]                       | 1825 [861]                        | 1750 [826]                        | 2250 [1062]                       | 1825 [861]                        | 1750 [826]                        | 2250 [1062]                       | 1825 [861]                        | 1750 [826]                        |
| DR ①                                      |               |                                                | .05                               | .09                               | .12                               | .05                               | .09                               | .12                               | .05                               | .09                               | .12                               |
| OUTDOOR DRY BULB TEMPERATURE<br>°F [°C]   | 75<br>[23.9]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 70.4 [20.6]<br>41.8 [12.3]<br>4.3 | 67.5 [19.8]<br>37.7 [11.0]<br>4.2 | 67.0 [19.6]<br>37.0 [10.8]<br>4.2 | 66.7 [19.5]<br>49.2 [14.4]<br>4.3 | 64.0 [18.8]<br>44.4 [13.0]<br>4.2 | 63.5 [18.6]<br>43.6 [12.8]<br>4.2 | 62.2 [18.2]<br>55.7 [16.3]<br>4.2 | 59.7 [17.5]<br>50.2 [14.7]<br>4.1 | 59.2 [17.4]<br>49.2 [14.4]<br>4.1 |
|                                           | 80<br>[26.7]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 69.5 [20.4]<br>41.6 [12.2]<br>4.5 | 66.6 [19.5]<br>37.5 [11.0]<br>4.4 | 66.1 [19.4]<br>36.8 [10.8]<br>4.4 | 65.8 [19.3]<br>49.1 [14.4]<br>4.5 | 63.1 [18.5]<br>44.3 [13.0]<br>4.4 | 62.7 [18.4]<br>43.4 [12.7]<br>4.4 | 61.3 [18.0]<br>55.5 [16.3]<br>4.4 | 58.8 [17.2]<br>50.0 [14.7]<br>4.3 | 58.3 [17.1]<br>49.1 [14.4]<br>4.3 |
|                                           | 85<br>[29.4]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 68.3 [20.0]<br>41.2 [12.1]<br>4.7 | 65.5 [19.2]<br>37.2 [10.9]<br>4.6 | 65.0 [19.1]<br>36.5 [10.7]<br>4.6 | 64.6 [18.9]<br>48.7 [14.3]<br>4.7 | 62.0 [18.2]<br>43.9 [12.9]<br>4.6 | 61.5 [18.0]<br>43.1 [12.6]<br>4.6 | 60.1 [17.6]<br>55.1 [16.1]<br>4.6 | 57.7 [16.9]<br>49.7 [14.6]<br>4.5 | 57.2 [16.8]<br>48.7 [14.3]<br>4.5 |
|                                           | 90<br>[32.2]  | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 66.9 [19.6]<br>40.6 [11.9]<br>4.9 | 64.2 [18.8]<br>36.6 [10.7]<br>4.8 | 63.7 [18.7]<br>35.9 [10.5]<br>4.8 | 63.2 [18.5]<br>48.0 [14.1]<br>4.9 | 60.6 [17.8]<br>43.3 [12.7]<br>4.8 | 60.2 [17.6]<br>42.5 [12.5]<br>4.8 | 58.7 [17.2]<br>54.5 [16.0]<br>4.8 | 56.3 [16.5]<br>49.1 [14.4]<br>4.7 | 55.9 [16.4]<br>48.2 [14.1]<br>4.7 |
|                                           | 95<br>[35]    | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 65.2 [19.1]<br>39.7 [11.6]<br>5.2 | 62.6 [18.3]<br>35.8 [10.5]<br>5.1 | 62.1 [18.2]<br>35.1 [10.3]<br>5.0 | 61.5 [18.0]<br>47.2 [13.8]<br>5.1 | 59.0 [17.3]<br>42.6 [12.5]<br>5.0 | 58.6 [17.2]<br>41.8 [12.3]<br>5.0 | 57.0 [16.7]<br>53.6 [15.7]<br>5.0 | 54.7 [16.0]<br>48.4 [14.2]<br>4.9 | 54.3 [15.9]<br>47.4 [13.9]<br>4.9 |
|                                           | 100<br>[37.8] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 63.3 [18.6]<br>38.7 [11.3]<br>5.4 | 60.7 [17.8]<br>34.9 [10.2]<br>5.3 | 60.3 [17.7]<br>34.2 [10.0]<br>5.3 | 59.6 [17.5]<br>46.1 [13.5]<br>5.3 | 57.2 [16.8]<br>41.6 [12.2]<br>5.2 | 56.8 [16.6]<br>40.8 [12.0]<br>5.2 | 55.1 [16.1]<br>52.5 [15.4]<br>5.3 | 52.9 [15.5]<br>47.4 [13.9]<br>5.2 | 52.5 [15.4]<br>46.5 [13.6]<br>5.2 |
|                                           | 105<br>[40.6] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 61.2 [17.9]<br>37.4 [11.0]<br>5.6 | 58.7 [17.2]<br>33.7 [9.9]<br>5.5  | 58.2 [17.1]<br>33.1 [9.7]<br>5.5  | 57.5 [16.9]<br>44.8 [13.1]<br>5.6 | 55.2 [16.2]<br>40.4 [11.8]<br>5.5 | 54.7 [16.0]<br>39.7 [11.6]<br>5.4 | 53.0 [15.5]<br>51.2 [15.0]<br>5.5 | 50.8 [14.9]<br>46.2 [13.5]<br>5.4 | 50.4 [14.8]<br>45.3 [13.3]<br>5.4 |
|                                           | 110<br>[43.3] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 58.8 [17.2]<br>35.8 [10.5]<br>5.9 | 56.4 [16.5]<br>32.3 [9.5]<br>5.8  | 56.0 [16.4]<br>31.7 [9.3]<br>5.8  | 55.1 [16.1]<br>43.3 [12.7]<br>5.8 | 52.9 [15.5]<br>39.1 [11.5]<br>5.7 | 52.5 [15.4]<br>38.3 [11.2]<br>5.7 | 50.6 [14.8]<br>49.7 [14.6]<br>5.8 | 48.5 [14.2]<br>44.8 [13.1]<br>5.7 | 48.2 [14.1]<br>44.0 [12.9]<br>5.6 |
|                                           | 115<br>[46.1] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 56.1 [16.4]<br>34.1 [10.0]<br>6.2 | 53.9 [15.8]<br>30.8 [9.0]<br>6.0  | 53.4 [15.7]<br>30.2 [8.9]<br>6.0  | 52.5 [15.4]<br>41.6 [12.2]<br>6.1 | 50.3 [14.7]<br>37.5 [11.0]<br>6.0 | 50.0 [14.7]<br>36.8 [10.8]<br>6.0 | 47.9 [14.0]<br>47.9 [14.0]<br>6.0 | 46.0 [13.5]<br>43.3 [12.7]<br>5.9 | 45.7 [13.4]<br>42.4 [12.4]<br>5.9 |
|                                           | 120<br>[48.9] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 53.3 [15.6]<br>32.1 [9.4]<br>6.4  | 51.1 [15.0]<br>29.0 [8.5]<br>6.3  | 50.7 [14.9]<br>28.4 [8.3]<br>6.3  | 49.6 [14.5]<br>39.6 [11.6]<br>6.4 | 47.6 [14.0]<br>35.7 [10.5]<br>6.3 | 47.2 [13.8]<br>35.0 [10.3]<br>6.2 | 45.1 [13.2]<br>45.1 [13.2]<br>6.3 | 43.2 [12.7]<br>41.5 [12.2]<br>6.2 | 42.9 [12.6]<br>40.7 [11.9]<br>6.2 |
|                                           | 125<br>[51.7] | Total kBtu/h [kW]<br>Sens kBtu/h [kW]<br>Power | 50.1 [14.7]<br>29.9 [8.8]<br>6.7  | 48.1 [14.1]<br>27.0 [7.9]<br>6.6  | 47.7 [14.0]<br>26.5 [7.8]<br>6.6  | 46.5 [13.6]<br>37.4 [11.0]<br>6.7 | 44.6 [13.1]<br>33.7 [9.9]<br>6.5  | 44.3 [13.0]<br>33.1 [9.7]<br>6.5  | 41.9 [12.3]<br>41.9 [12.3]<br>6.6 | 40.2 [11.8]<br>39.5 [11.6]<br>6.5 | 39.9 [11.7]<br>38.8 [11.4]<br>6.5 |

DR —Depression ratio  
dbE —Entering air dry bulb  
wbE —Entering air wet bulb

Total —Total capacity x 1000 kBtu/h  
Sens —Sensible capacity x 1000 kBtu/h  
Power —kW input

NOTES: ① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding  $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dbE} - 80)]$ .

[ ] Designates Metric Conversions

## HEATING PERFORMANCE DATA—RDFXYC024

| IDB                                              |               |                            | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]     |                    |                    | 80°F [26.7°C]      |                    |                    |
|--------------------------------------------------|---------------|----------------------------|--------------------|--------------------|--------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                        |               |                            | 900 [425]          | 850 [401]          | 700 [330]          | 900 [425]         | 850 [401]          | 700 [330]          | 900 [425]          | 850 [401]          | 700 [330]          |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 0<br>[-17.8]  | Total kBtu/h [kW]<br>Power | 12.1 [3.5]<br>2.2  | 12 [3.5]<br>2.2    | 11.9 [3.5]<br>2.3  | 11.8 [3.5]<br>2.4 | 11.7 [3.4]<br>2.4  | 11.6 [3.4]<br>2.4  | 11.4 [3.3]<br>2.5  | 11.4 [3.3]<br>2.5  | 11.2 [3.3]<br>2.6  |
|                                                  | 5<br>[-15]    | Total kBtu/h [kW]<br>Power | 14.5 [4.2]<br>2.2  | 14.5 [4.2]<br>2.3  | 14.3 [4.2]<br>2.3  | 14.2 [4.2]<br>2.4 | 14.1 [4.1]<br>2.4  | 13.9 [4.1]<br>2.5  | 13.9 [4.1]<br>2.5  | 13.8 [4]<br>2.5    | 13.6 [4.0]<br>2.6  |
|                                                  | 10<br>[-12.2] | Total kBtu/h [kW]<br>Power | 16.9 [5.0]<br>2.3  | 16.9 [5.0]<br>2.3  | 16.7 [4.9]<br>2.3  | 16.6 [4.9]<br>2.4 | 16.5 [4.8]<br>2.4  | 16.3 [4.8]<br>2.5  | 16.3 [4.8]<br>2.6  | 16.2 [4.7]<br>2.6  | 16 [4.7]<br>2.6    |
|                                                  | 15<br>[-9.4]  | Total kBtu/h [kW]<br>Power | 19.4 [5.7]<br>2.3  | 19.3 [5.7]<br>2.3  | 19.0 [5.6]<br>2.4  | 19.0 [5.6]<br>2.4 | 19.0 [5.6]<br>2.5  | 18.7 [5.5]<br>2.5  | 18.7 [5.5]<br>2.6  | 18.6 [5.5]<br>2.6  | 18.4 [5.4]<br>2.7  |
|                                                  | 20<br>[-6.7]  | Total kBtu/h [kW]<br>Power | 21.8 [6.4]<br>2.3  | 21.7 [6.4]<br>2.3  | 21.4 [6.3]<br>2.4  | 21.5 [6.3]<br>2.5 | 21.4 [6.3]<br>2.5  | 21.1 [6.2]<br>2.5  | 21.1 [6.2]<br>2.6  | 21.0 [6.2]<br>2.6  | 20.8 [6.1]<br>2.7  |
|                                                  | 25<br>[-3.9]  | Total kBtu/h [kW]<br>Power | 24.2 [7.1]<br>2.4  | 24.1 [7.1]<br>2.4  | 23.8 [7.0]<br>2.4  | 23.9 [7.0]<br>2.5 | 23.8 [7.0]<br>2.5  | 23.5 [6.9]<br>2.6  | 23.6 [6.9]<br>2.7  | 23.5 [6.9]<br>2.7  | 23.2 [6.8]<br>2.7  |
|                                                  | 30<br>[-1.1]  | Total kBtu/h [kW]<br>Power | 26.6 [7.8]<br>2.4  | 26.5 [7.8]<br>2.4  | 26.2 [7.7]<br>2.5  | 26.3 [7.7]<br>2.5 | 26.2 [7.7]<br>2.6  | 25.9 [7.6]<br>2.6  | 26.0 [7.6]<br>2.7  | 25.9 [7.6]<br>2.7  | 25.5 [7.5]<br>2.8  |
|                                                  | 35<br>[1.7]   | Total kBtu/h [kW]<br>Power | 29.1 [8.5]<br>2.4  | 28.9 [8.5]<br>2.5  | 28.6 [8.4]<br>2.5  | 28.7 [8.4]<br>2.6 | 28.6 [8.4]<br>2.6  | 28.2 [8.3]<br>2.7  | 28.4 [8.3]<br>2.7  | 28.3 [8.3]<br>2.8  | 27.9 [8.2]<br>2.8  |
|                                                  | 40<br>[4.4]   | Total kBtu/h [kW]<br>Power | 31.5 [9.2]<br>2.5  | 31.3 [9.2]<br>2.5  | 31 [9.1]<br>2.6    | 31.1 [9.1]<br>2.6 | 31 [9.1]<br>2.7    | 30.6 [9.0]<br>2.7  | 30.8 [9.0]<br>2.8  | 30.7 [9.0]<br>2.8  | 30.3 [8.9]<br>2.9  |
|                                                  | 45<br>[7.2]   | Total kBtu/h [kW]<br>Power | 33.9 [9.9]<br>2.5  | 33.8 [9.9]<br>2.6  | 33.3 [9.8]<br>2.6  | 33.6 [9.8]<br>2.7 | 33.4 [9.8]<br>2.7  | 33.0 [9.7]<br>2.8  | 33.2 [9.7]<br>2.8  | 33.1 [9.7]<br>2.8  | 32.7 [9.6]<br>2.9  |
|                                                  | 50<br>[10.0]  | Total kBtu/h [kW]<br>Power | 36.3 [10.6]<br>2.6 | 36.2 [10.6]<br>2.6 | 35.7 [10.5]<br>2.7 | 36 [10.6]<br>2.7  | 35.8 [10.5]<br>2.7 | 35.4 [10.4]<br>2.8 | 35.7 [10.5]<br>2.9 | 35.5 [10.4]<br>2.9 | 35.1 [10.3]<br>3.0 |

## HEATING PERFORMANCE DATA—RDFXYC036

| IDB                                              |               |                            | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]     |                   |                   | 80°F [26.7°C]     |                   |                   |
|--------------------------------------------------|---------------|----------------------------|--------------------|--------------------|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| CFM [L/s]                                        |               |                            | 1350 [637]         | 1225 [578]         | 1050 [496]         | 1350 [637]        | 1225 [578]        | 1050 [496]        | 1350 [637]        | 1225 [578]        | 1050 [496]        |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 0<br>[-17.8]  | Total kBtu/h [kW]<br>Power | 13.6 [4.0]<br>2.3  | 13.5 [4.0]<br>2.3  | 13.4 [3.9]<br>2.4  | 12.8 [3.8]<br>2.4 | 12.7 [3.7]<br>2.4 | 12.6 [3.7]<br>2.4 | 12.1 [3.5]<br>2.8 | 12.0 [3.5]<br>2.8 | 11.8 [3.5]<br>2.9 |
|                                                  | 5<br>[-15]    | Total kBtu/h [kW]<br>Power | 15.7 [4.6]<br>2.3  | 15.6 [4.6]<br>2.4  | 15.4 [4.5]<br>2.4  | 14.9 [4.4]<br>2.4 | 14.8 [4.3]<br>2.4 | 14.7 [4.3]<br>2.5 | 14.2 [4.2]<br>2.8 | 14.0 [4.1]<br>2.8 | 13.9 [4.1]<br>2.9 |
|                                                  | 10<br>[-12.2] | Total kBtu/h [kW]<br>Power | 17.8 [5.2]<br>2.3  | 17.7 [5.2]<br>2.4  | 17.5 [5.1]<br>2.4  | 17.0 [5.0]<br>2.4 | 16.9 [5]<br>2.4   | 16.7 [4.9]<br>2.5 | 16.2 [4.7]<br>2.8 | 16.1 [4.7]<br>2.8 | 16.0 [4.7]<br>2.9 |
|                                                  | 15<br>[-9.4]  | Total kBtu/h [kW]<br>Power | 19.9 [5.8]<br>2.3  | 19.8 [5.8]<br>2.4  | 19.6 [5.7]<br>2.4  | 19.1 [5.6]<br>2.4 | 19 [5.6]<br>2.4   | 18.8 [5.5]<br>2.5 | 18.3 [5.4]<br>2.8 | 18.2 [5.3]<br>2.8 | 18.0 [5.3]<br>2.9 |
|                                                  | 20<br>[-6.7]  | Total kBtu/h [kW]<br>Power | 22.0 [6.4]<br>2.3  | 21.8 [6.4]<br>2.4  | 21.6 [6.3]<br>2.4  | 21.2 [6.2]<br>2.4 | 21.1 [6.2]<br>2.4 | 20.8 [6.1]<br>2.5 | 20.4 [6.0]<br>2.8 | 20.3 [5.9]<br>2.8 | 20.1 [5.9]<br>2.9 |
|                                                  | 25<br>[-3.9]  | Total kBtu/h [kW]<br>Power | 24.1 [7.1]<br>2.3  | 23.9 [7.0]<br>2.4  | 23.7 [6.9]<br>2.4  | 23.3 [6.8]<br>2.4 | 23.1 [6.8]<br>2.4 | 22.9 [6.7]<br>2.5 | 22.5 [6.6]<br>2.8 | 22.4 [6.6]<br>2.9 | 22.1 [6.5]<br>2.9 |
|                                                  | 30<br>[-1.1]  | Total kBtu/h [kW]<br>Power | 26.2 [7.7]<br>2.4  | 26 [7.6]<br>2.4    | 25.7 [7.5]<br>2.4  | 25.4 [7.4]<br>2.4 | 25.2 [7.4]<br>2.4 | 25.0 [7.3]<br>2.5 | 24.6 [7.2]<br>2.8 | 24.4 [7.2]<br>2.9 | 24.2 [7.1]<br>2.9 |
|                                                  | 35<br>[1.7]   | Total kBtu/h [kW]<br>Power | 28.3 [8.3]<br>2.4  | 28.1 [8.2]<br>2.4  | 27.8 [8.1]<br>2.4  | 27.5 [8.1]<br>2.4 | 27.3 [8.0]<br>2.5 | 27.0 [7.9]<br>2.5 | 26.7 [7.8]<br>2.8 | 26.5 [7.8]<br>2.9 | 26.3 [7.7]<br>2.9 |
|                                                  | 40<br>[4.4]   | Total kBtu/h [kW]<br>Power | 30.4 [8.9]<br>2.4  | 30.1 [8.8]<br>2.4  | 29.8 [8.7]<br>2.4  | 29.6 [8.7]<br>2.4 | 29.4 [8.6]<br>2.5 | 29.1 [8.5]<br>2.5 | 28.8 [8.4]<br>2.8 | 28.6 [8.4]<br>2.9 | 28.3 [8.3]<br>2.9 |
|                                                  | 45<br>[7.2]   | Total kBtu/h [kW]<br>Power | 32.5 [9.5]<br>2.4  | 32.2 [9.4]<br>2.4  | 31.9 [9.3]<br>2.5  | 31.7 [9.3]<br>2.4 | 31.5 [9.2]<br>2.5 | 31.1 [9.1]<br>2.5 | 30.9 [9.1]<br>2.8 | 30.7 [9.0]<br>2.9 | 30.4 [8.9]<br>2.9 |
|                                                  | 50<br>[10.0]  | Total kBtu/h [kW]<br>Power | 34.6 [10.1]<br>2.4 | 34.3 [10.1]<br>2.4 | 34.0 [10.0]<br>2.5 | 33.8 [9.9]<br>2.4 | 33.5 [9.8]<br>2.5 | 33.2 [9.7]<br>2.5 | 33.0 [9.7]<br>2.8 | 32.8 [9.6]<br>2.9 | 32.4 [9.5]<br>2.9 |

## HEATING PERFORMANCE DATA—RDFXYC048

| IDB                                              |               |                            | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]      |                    |                    | 80°F [26.7°C]      |                    |                    |
|--------------------------------------------------|---------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                        |               |                            | 1800 [850]         | 1425 [673]         | 1400 [661]         | 1800 [850]         | 1425 [673]         | 1400 [661]         | 1800 [850]         | 1425 [673]         | 1400 [661]         |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 0<br>[-17.8]  | Total kBtu/h [kW]<br>Power | 18.8 [5.5]<br>3.0  | 18.5 [5.4]<br>3.1  | 18.4 [5.4]<br>3.1  | 17.9 [5.2]<br>3.1  | 17.5 [5.1]<br>3.2  | 17.5 [5.1]<br>3.2  | 16.9 [5.0]<br>3.6  | 16.6 [4.9]<br>3.8  | 16.6 [4.9]<br>3.8  |
|                                                  | 5<br>[-15]    | Total kBtu/h [kW]<br>Power | 21.5 [6.3]<br>3.0  | 21.1 [6.2]<br>3.1  | 21.1 [6.2]<br>3.1  | 20.6 [6]<br>3.1    | 20.2 [5.9]<br>3.2  | 20.1 [5.9]<br>3.2  | 19.6 [5.7]<br>3.7  | 19.2 [5.6]<br>3.8  | 19.2 [5.6]<br>3.8  |
|                                                  | 10<br>[-12.2] | Total kBtu/h [kW]<br>Power | 24.2 [7.1]<br>3.0  | 23.7 [6.9]<br>3.1  | 23.7 [6.9]<br>3.1  | 23.2 [6.8]<br>3.1  | 22.8 [6.7]<br>3.2  | 22.8 [6.7]<br>3.2  | 22.3 [6.5]<br>3.7  | 21.9 [6.4]<br>3.8  | 21.9 [6.4]<br>3.8  |
|                                                  | 15<br>[-9.4]  | Total kBtu/h [kW]<br>Power | 26.9 [7.9]<br>3.0  | 26.4 [7.7]<br>3.1  | 26.4 [7.7]<br>3.1  | 25.9 [7.6]<br>3.1  | 25.5 [7.5]<br>3.2  | 25.4 [7.4]<br>3.2  | 25.0 [7.3]<br>3.7  | 24.5 [7.2]<br>3.8  | 24.5 [7.2]<br>3.8  |
|                                                  | 20<br>[-6.7]  | Total kBtu/h [kW]<br>Power | 29.6 [8.7]<br>3.0  | 29.0 [8.5]<br>3.1  | 29.0 [8.5]<br>3.2  | 28.6 [8.4]<br>3.1  | 28.1 [8.2]<br>3.2  | 28.1 [8.2]<br>3.2  | 27.7 [8.1]<br>3.7  | 27.2 [8.0]<br>3.8  | 27.2 [8.0]<br>3.8  |
|                                                  | 25<br>[-3.9]  | Total kBtu/h [kW]<br>Power | 32.3 [9.5]<br>3.0  | 31.7 [9.3]<br>3.2  | 31.6 [9.3]<br>3.2  | 31.3 [9.2]<br>3.1  | 30.8 [9.0]<br>3.2  | 30.7 [9.0]<br>3.2  | 30.4 [8.9]<br>3.7  | 29.8 [8.7]<br>3.8  | 29.8 [8.7]<br>3.8  |
|                                                  | 30<br>[-1.1]  | Total kBtu/h [kW]<br>Power | 35.0 [10.3]<br>3.1 | 34.3 [10.1]<br>3.2 | 34.3 [10.1]<br>3.2 | 34.0 [10.0]<br>3.1 | 33.4 [9.8]<br>3.2  | 33.4 [9.8]<br>3.2  | 33.1 [9.7]<br>3.7  | 32.5 [9.5]<br>3.8  | 32.4 [9.5]<br>3.8  |
|                                                  | 35<br>[1.7]   | Total kBtu/h [kW]<br>Power | 37.7 [11.0]<br>3.1 | 37.0 [10.8]<br>3.2 | 36.9 [10.8]<br>3.2 | 36.7 [10.8]<br>3.1 | 36.1 [10.6]<br>3.2 | 36.0 [10.6]<br>3.2 | 35.8 [10.5]<br>3.7 | 35.1 [10.3]<br>3.8 | 35.1 [10.3]<br>3.8 |
|                                                  | 40<br>[4.4]   | Total kBtu/h [kW]<br>Power | 40.4 [11.8]<br>3.1 | 39.6 [11.6]<br>3.2 | 39.6 [11.6]<br>3.2 | 39.4 [11.5]<br>3.1 | 38.7 [11.3]<br>3.2 | 38.6 [11.3]<br>3.2 | 38.5 [11.3]<br>3.7 | 37.8 [11.1]<br>3.8 | 37.7 [11.0]<br>3.8 |
|                                                  | 45<br>[7.2]   | Total kBtu/h [kW]<br>Power | 43.1 [12.6]<br>3.1 | 42.3 [12.4]<br>3.2 | 42.2 [12.4]<br>3.2 | 42.1 [12.3]<br>3.1 | 41.3 [12.1]<br>3.2 | 41.3 [12.1]<br>3.2 | 41.2 [12.1]<br>3.7 | 40.4 [11.8]<br>3.8 | 40.4 [11.8]<br>3.8 |
|                                                  | 50<br>[10.0]  | Total kBtu/h [kW]<br>Power | 45.8 [13.4]<br>3.1 | 44.9 [13.2]<br>3.2 | 44.9 [13.2]<br>3.2 | 44.8 [13.1]<br>3.1 | 44.0 [12.9]<br>3.2 | 43.9 [12.9]<br>3.2 | 43.9 [12.9]<br>3.7 | 43.1 [12.6]<br>3.8 | 43.0 [12.6]<br>3.8 |

## HEATING PERFORMANCE DATA—RDFXYC060

| IDB                                              |               |                            | 60°F [15.6°C]      |                    |                    | 70°F [21.1°C]      |                    |                    | 80°F [26.7°C]      |                    |                    |
|--------------------------------------------------|---------------|----------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| CFM [L/s]                                        |               |                            | 2250 [1062]        | 1825 [861]         | 1750 [826]         | 2250 [1062]        | 1825 [861]         | 1750 [826]         | 2250 [1062]        | 1825 [861]         | 1750 [826]         |
| OUTDOOR<br>DRY<br>BULB<br>TEMPERATURE<br>°F [°C] | 0<br>[-17.8]  | Total kBtu/h [kW]<br>Power | 26.9 [7.9]<br>4.0  | 26.4 [7.7]<br>4.1  | 26.3 [7.7]<br>4.1  | 25.1 [7.4]<br>3.9  | 24.7 [7.2]<br>4.0  | 24.6 [7.2]<br>4.1  | 23.3 [6.8]<br>4.6  | 22.9 [6.7]<br>4.8  | 22.9 [6.7]<br>4.8  |
|                                                  | 5<br>[-15]    | Total kBtu/h [kW]<br>Power | 29.7 [8.7]<br>3.9  | 29.2 [8.6]<br>4.1  | 29.2 [8.6]<br>4.1  | 28.0 [8.2]<br>3.9  | 27.5 [8.1]<br>4.0  | 27.4 [8.0]<br>4.1  | 26.2 [7.7]<br>4.6  | 25.8 [7.6]<br>4.8  | 25.7 [7.5]<br>4.8  |
|                                                  | 10<br>[-12.2] | Total kBtu/h [kW]<br>Power | 32.6 [9.6]<br>3.9  | 32.1 [9.4]<br>4.1  | 32.0 [9.4]<br>4.1  | 30.8 [9.0]<br>3.9  | 30.3 [8.9]<br>4.0  | 30.2 [8.9]<br>4.0  | 29.1 [8.5]<br>4.6  | 28.6 [8.4]<br>4.8  | 28.5 [8.4]<br>4.8  |
|                                                  | 15<br>[-9.4]  | Total kBtu/h [kW]<br>Power | 35.5 [10.4]<br>3.9 | 34.9 [10.2]<br>4.1 | 34.8 [10.2]<br>4.1 | 33.7 [9.9]<br>3.9  | 33.2 [9.7]<br>4.0  | 33.1 [9.7]<br>4.0  | 31.9 [9.3]<br>4.6  | 31.4 [9.2]<br>4.8  | 31.3 [9.2]<br>4.8  |
|                                                  | 20<br>[-6.7]  | Total kBtu/h [kW]<br>Power | 38.3 [11.2]<br>3.9 | 37.7 [11.0]<br>4.0 | 37.6 [11.0]<br>4.1 | 36.6 [10.7]<br>3.9 | 36.0 [10.6]<br>4.0 | 35.9 [10.5]<br>4.0 | 34.8 [10.2]<br>4.6 | 34.2 [10.0]<br>4.7 | 34.1 [10.0]<br>4.8 |
|                                                  | 25<br>[-3.9]  | Total kBtu/h [kW]<br>Power | 41.2 [12.1]<br>3.9 | 40.5 [11.9]<br>4.0 | 40.4 [11.8]<br>4.1 | 39.5 [11.6]<br>3.9 | 38.8 [11.4]<br>4.0 | 38.7 [11.3]<br>4.0 | 37.7 [11.0]<br>4.6 | 37.1 [10.9]<br>4.7 | 37.0 [10.8]<br>4.8 |
|                                                  | 30<br>[-1.1]  | Total kBtu/h [kW]<br>Power | 44.1 [12.9]<br>3.9 | 43.4 [12.7]<br>4.0 | 43.2 [12.7]<br>4.1 | 42.3 [12.4]<br>3.9 | 41.6 [12.2]<br>4.0 | 41.5 [12.2]<br>4.0 | 40.6 [11.9]<br>4.6 | 39.9 [11.7]<br>4.7 | 39.8 [11.7]<br>4.8 |
|                                                  | 35<br>[1.7]   | Total kBtu/h [kW]<br>Power | 47.0 [13.8]<br>3.9 | 46.2 [13.5]<br>4.0 | 46.1 [13.5]<br>4.0 | 45.2 [13.2]<br>3.9 | 44.5 [13.0]<br>4.0 | 44.3 [13.0]<br>4.0 | 43.4 [12.7]<br>4.6 | 42.7 [12.5]<br>4.7 | 42.6 [12.5]<br>4.8 |
|                                                  | 40<br>[4.4]   | Total kBtu/h [kW]<br>Power | 49.8 [14.6]<br>3.9 | 49.0 [14.4]<br>4.0 | 48.9 [14.3]<br>4.0 | 48.1 [14.1]<br>3.9 | 47.3 [13.9]<br>4.0 | 47.1 [13.8]<br>4.0 | 46.3 [13.6]<br>4.6 | 45.5 [13.3]<br>4.7 | 45.4 [13.3]<br>4.7 |
|                                                  | 45<br>[7.2]   | Total kBtu/h [kW]<br>Power | 52.7 [15.4]<br>3.9 | 51.8 [15.2]<br>4.0 | 51.7 [15.2]<br>4.0 | 50.9 [14.9]<br>3.9 | 50.1 [14.7]<br>4.0 | 50.0 [14.7]<br>4.0 | 49.2 [14.4]<br>4.6 | 48.4 [14.2]<br>4.7 | 48.2 [14.1]<br>4.7 |
|                                                  | 50<br>[10.0]  | Total kBtu/h [kW]<br>Power | 55.6 [16.3]<br>3.9 | 54.7 [16]<br>4.0   | 54.5 [16.0]<br>4.0 | 53.8 [15.8]<br>3.9 | 52.9 [15.5]<br>4.0 | 52.8 [15.5]<br>4.0 | 52.1 [15.3]<br>4.6 | 51.2 [15.0]<br>4.7 | 51.0 [14.9]<br>4.7 |

AIRFLOW PERFORMANCE DATA

| RDFXYC SERIES                           | 024         | 036         | 048         | 060         |
|-----------------------------------------|-------------|-------------|-------------|-------------|
| RECOMMENDED CFM FOR HIGH COOL (MIN/MAX) | 700/900     | 1050/1350   | 1400/1800   | 1750/2250   |
| THERMOSTAT CALL                         | NOMINAL CFM | NOMINAL CFM | NOMINAL CFM | NOMINAL CFM |
| FAN                                     | 840         | 800         | 1040        | 1200        |
| LOW COOL                                | 840         | 830         | 1025        | 1300        |
| HIGH COOL*                              | 840         | 1230        | 1430        | 1820        |
| LOW HP HEAT                             | 620         | 780         | 960         | 1235        |
| HIGH HP HEAT                            | 880         | 1160        | 1350        | 1710        |
| 60K LOW HEAT                            | 910         | 910         | —           | —           |
| 60K HIGH HEAT                           | 1050        | 1050        | —           | —           |
| 80K LOW HEAT                            | —           | 1110        | 1110        | 1065        |
| 80K HIGH HEAT                           | —           | 1265        | 1265        | 1240        |
| 100K LOW HEAT                           | —           | —           | 1273        | 1296        |
| 100K HIGH HEAT                          | —           | —           | 1465        | 1600        |

\*Minimum based on 350 CFM per ton. Maximum based on 450 CFM per ton.



| ELECTRICAL DATA - RDFXYC SERIES |                                            |           |           |           |           |           |           |           |           |
|---------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                 |                                            | 024ACV062 | 024AJV062 | 036ACV062 | 036ACV082 | 036AJV062 | 036AJV082 | 048ACV082 | 048ACV102 |
| Unit Information                | Unit Operating Voltage Range               | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 3         | 1         | 3         | 3         | 1         | 1         | 3         | 3         |
|                                 | Hz                                         | 60        | 60        | 60        | 60        | 60        | 60        | 60        | 60        |
|                                 | Minimum Circuit Ampacity                   | 20        | 28        | 20        | 20        | 28        | 28        | 23        | 23        |
|                                 | Minimum Overcurrent Protection Device Size | 25        | 35        | 25        | 25        | 35        | 35        | 30        | 30        |
|                                 | Maximum Overcurrent Protection Device Size | 25        | 40        | 25        | 25        | 40        | 40        | 30        | 30        |
| Compressor Motor                | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 3         | 1         | 3         | 3         | 1         | 1         | 3         | 3         |
|                                 | Amps (RLA), Comp. 1                        | 8.6       | 14.6      | 8.6       | 8.6       | 14.6      | 14.6      | 10.8      | 10.8      |
|                                 | Amps (LRA), Comp. 1                        | 70        | 76        | 70        | 70        | 76        | 76        | 123       | 123       |
|                                 | Amps (RLA), Comp. 2                        | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |
|                                 | Amps (LRA), Comp. 2                        | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |
| Condenser Motor                 | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | HP                                         | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       | 1/3       |
|                                 | Amps (FLA, each)                           | 1.5       | 1.5       | 1.5       | 1.5       | 1.5       | 1.5       | 1.5       | 1.5       |
|                                 | Amps (LRA, each)                           | 3         | 3         | 3         | 3         | 3         | 3         | 3         | 3         |
| Evaporator Fan                  | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | HP                                         | 1         | 1         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Amps (FLA, each)                           | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       |
|                                 | Amps (LRA, each)                           | —         | —         | —         | —         | —         | —         | —         | —         |

| ELECTRICAL DATA - RDFXYC SERIES |                                            |           |           |           |           |           |           |
|---------------------------------|--------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                                 |                                            | 048AJV082 | 048AJV102 | 060ACV082 | 060ACV102 | 060AJV082 | 060AJV102 |
| Unit Information                | Unit Operating Voltage Range               | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   | 187-253   |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 3         | 3         | 1         | 1         |
|                                 | Hz                                         | 60        | 60        | 60        | 60        | 60        | 60        |
|                                 | Minimum Circuit Ampacity                   | 36        | 36        | 29        | 29        | 43        | 43        |
|                                 | Minimum Overcurrent Protection Device Size | 45        | 45        | 35        | 35        | 50        | 50        |
|                                 | Maximum Overcurrent Protection Device Size | 50        | 50        | 40        | 40        | 60        | 60        |
| Compressor Motor                | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 3         | 3         | 1         | 1         |
|                                 | Amps (RLA), Comp. 1                        | 19.4      | 19.4      | 12.4      | 12.4      | 23.7      | 23.7      |
|                                 | Amps (LRA), Comp. 1                        | 102       | 102       | 93        | 93        | 123       | 123       |
|                                 | Amps (RLA), Comp. 2                        | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |
|                                 | Amps (LRA), Comp. 2                        | N/A       | N/A       | N/A       | N/A       | N/A       | N/A       |
| Condenser Motor                 | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | HP                                         | 1/3       | 1/3       | 1/2       | 1/2       | 1/2       | 1/2       |
|                                 | Amps (FLA, each)                           | 1.5       | 1.5       | 5.3       | 5.3       | 5.3       | 5.3       |
|                                 | Amps (LRA, each)                           | 3         | 3         |           |           |           |           |
| Evaporator Fan                  | No.                                        | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Volts                                      | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   | 208/230   |
|                                 | Phase                                      | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | HP                                         | 1         | 1         | 1         | 1         | 1         | 1         |
|                                 | Amps (FLA, each)                           | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       | 7.6       |
|                                 | Amps (LRA, each)                           | —         | —         | —         | —         | —         | —         |

## ACCESSORY EQUIPMENT

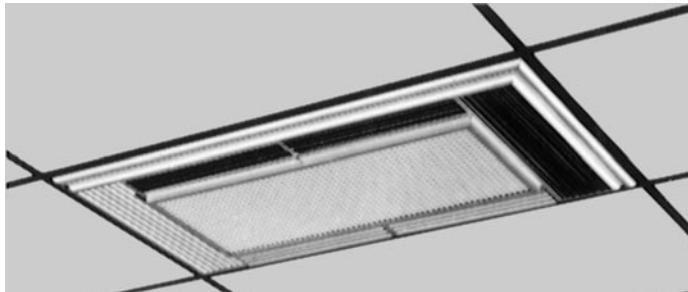
| Accessory Description                            | Accessory Model No.              |
|--------------------------------------------------|----------------------------------|
| Roofcurb                                         | RXSG-AXA14 (14" [356 mm] Height) |
|                                                  | RXSG-AXA24 (24" [610 mm] Height) |
| Curb Adapter ("A" footprint to "X" footprint)    | RXRX-DXCAE                       |
| Duct Adapter Sideflow Square to Round Transition | AXMC-BA01                        |
| Supply & Return Diffusers                        | RXRN-BD15                        |
| Rectangular to Round Transition (Downflow)       | RXMC-CA02 (16" [406 mm] Ducts)   |
|                                                  | RXMC-CA03 (18" [457 mm] Ducts)   |
| Economizers (Convertible)                        | RXRE-11RXCAM3                    |
| Dual Enthalpy Kit                                | PD555460                         |
| Fresh Air Damper                                 | RXRF-FAA2 (Fixed-35%)            |
|                                                  | RXRF-FAB2 (Motorized-35%)        |
| Filter Kit                                       | RXRY-B02                         |
| Split Door Design Kit                            | RXRX-SDX01                       |
| Low Ambient Control                              | RXPZ-G01                         |
| Phase Monitor Kit                                | RXRX-PM3A01                      |
| LP Conversion Kits <sup>1</sup>                  | RXGJ-FP28                        |

<sup>1</sup>If a particular unit is to be converted to operate on LP (propane) for elevations above 2000 ft. [609.6 m] in Canada, the existing Natural Gas to LP Conversion Kits for the subject models already contain the necessary orifices and instructions to de-rate the input for 2000-4500 ft. [609.6-1371.6 m] Canadian applications.

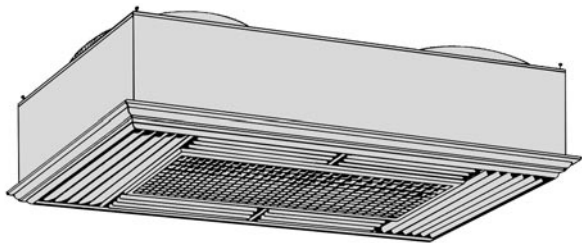
**NOTE:** High and low pressure switches are standard for RDFXYC Models.

[ ] Designates Metric Conversions

COMMON SUPPLY/RETURN  
CONCENTRIC AIR DIFFUSER



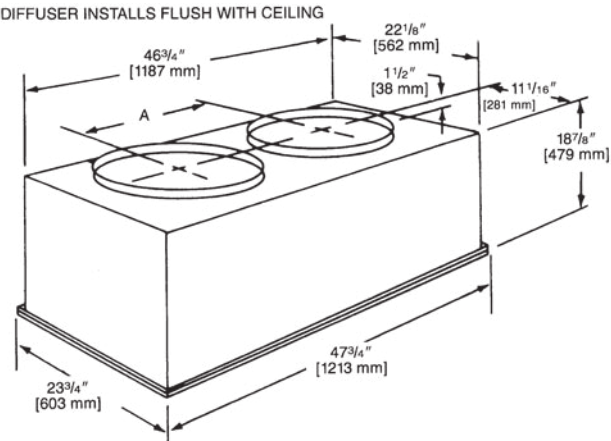
SUPPLY/RETURN DIFFUSER



Designed to convert a side by side or an over and under arrangement into a concentric distribution of air. The diffuser is flush mounted, completely insulated, assembled, and internally baffled to provide four way supply air distribution with a center return. To make the assembly complete and ready to fit into a 2' [0.61 m] x 4' [1.22 m] suspended ceiling grid, the diffuser includes adjustable supply louvers, hanging rings, anti-sweat gasket, and round flanges for use with flexible ducts.

| Model No.<br>RXRN- | Diameter<br>Inches [mm] | Shipping Wt.<br>Lbs. [kg] | Dimension A<br>Inches [mm] |
|--------------------|-------------------------|---------------------------|----------------------------|
| BD15               | 16 [406]                | 90 [40.82]                | 20½ [521]                  |

[ ] Designates Metric Conversions



**NOTE:** The location of the combination supply and return diffuser should not exceed 10 feet [3.05 m] above the floor level for units @ 1000 CFM [472 L/s] or less and 12 [3.66 m] to 14 feet [4.27 m] above the floor level for units with CFM greater than 1000 [472 L/s]. If the diffuser is installed with a greater distance than recommended above, the supply air may become stratified above the required comfort area causing uncomfortable conditions.

AIRFLOW/PRESSURE DROP  
INFORMATION (INCHES W.C. [kPa])

| Accessory                   | Approximate CFM [L/s]-Supply Air |            |            |             |
|-----------------------------|----------------------------------|------------|------------|-------------|
|                             | 1300 [614]                       | 1575 [743] | 1800 [850] | 2200 [1038] |
| Plenum & Supply/Return Duct | .07 [.017]                       | .10 [.024] | .12 [.030] | .17 [.042]  |
| Diffuser                    | .09 [.022]                       | .13 [.032] | .16 [.040] | .24 [.060]  |
| Economizer                  | .06 [.015]                       | .09 [.022] | .11 [.027] | .17 [.042]  |

SUPPLY AIR/PERFORMANCE

| Diffuser Airflow CFM [L/s] | Range of Throw Ft. [m] |
|----------------------------|------------------------|
| 800 [378]-1200 [566]       | 14 [4.27]-16 [4.88]    |
| 1600 [755]-2000 [944]      | 18 [5.49]-28 [8.53]    |

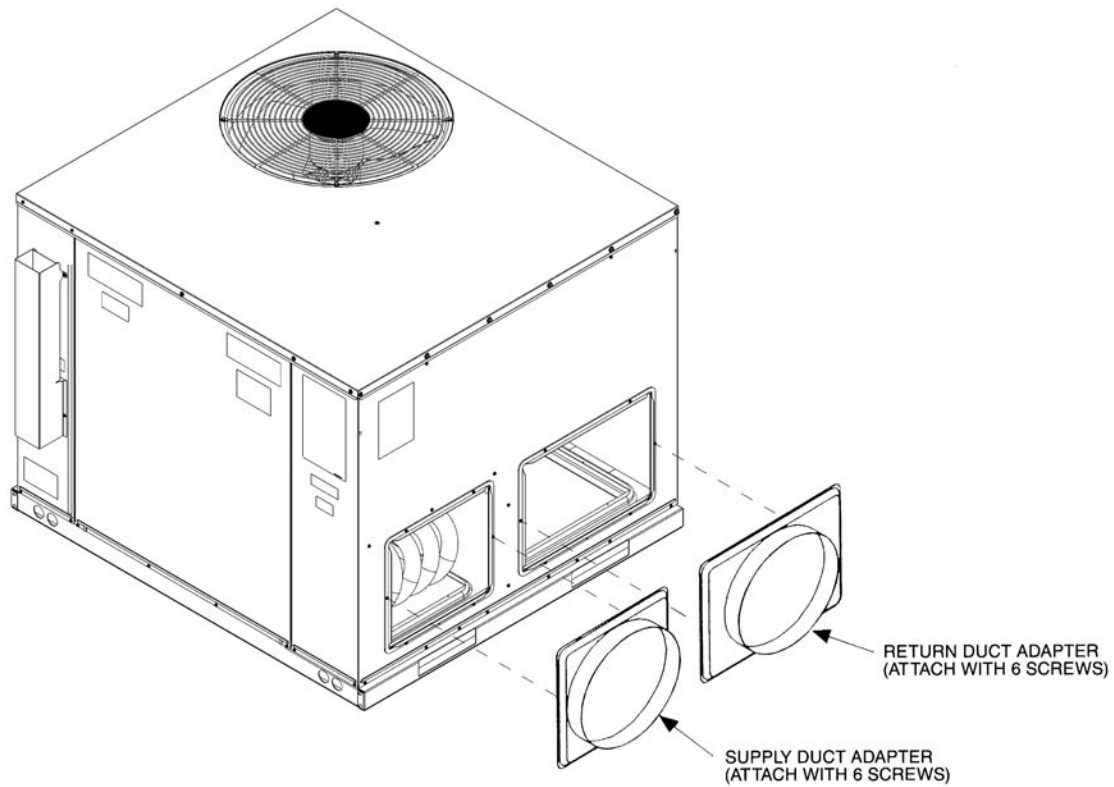


## DUCT ADAPTER SIDEFLOW SQUARE TO ROUND TRANSITION

### AXMC-BA01

Adapts the side rectangular supply and return openings to 14" [356 mm] diameter round openings. Adapters provided with same finish as unit and also provided with thermal insulation.

[ ] Designates Metric Conversions



## ROOFCURB (Full Perimeter)

### RXSG-AXA14, RXSG-AXA24

Hinged corners make for fast, easy set-up

#### RXSG-AXA14

(14" [356 mm] Height)

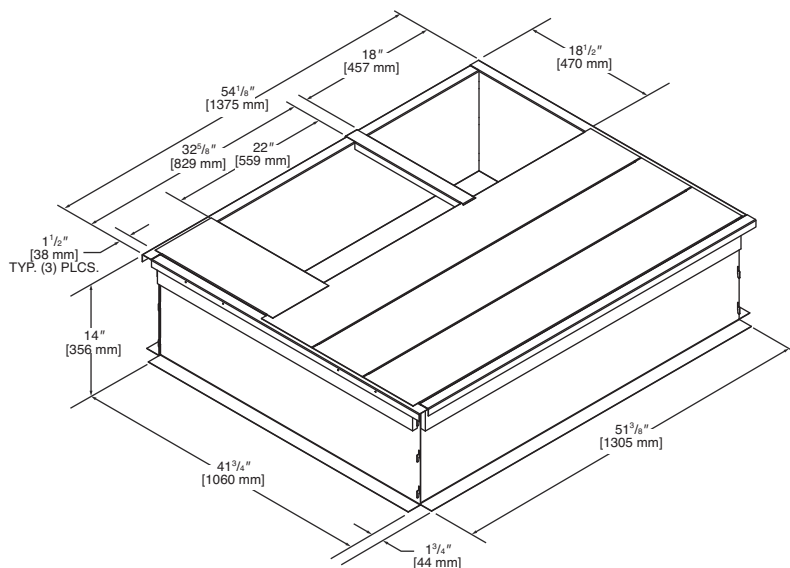


Illustration  
ST-A1334-14-00

#### RXSG-AXA24

(24" [610 mm] Height)

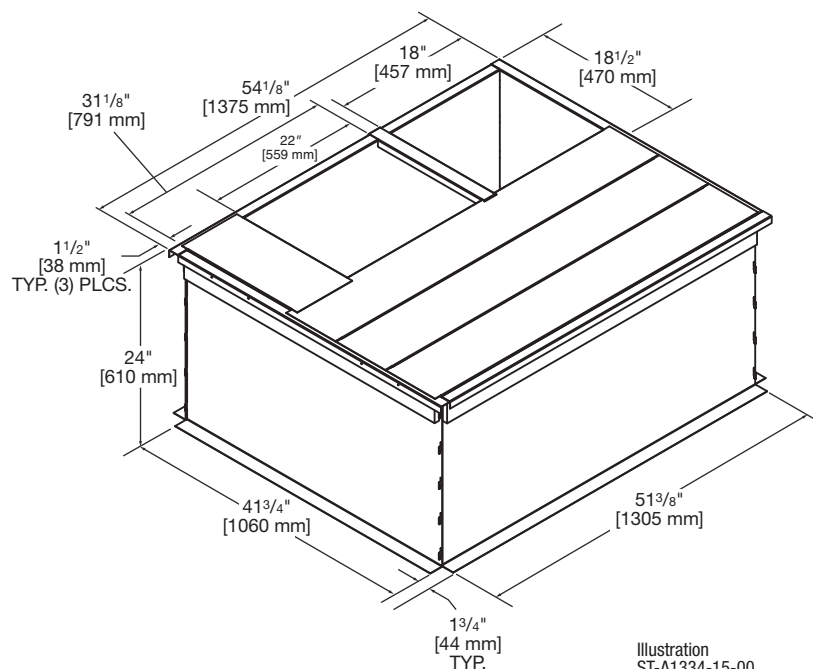
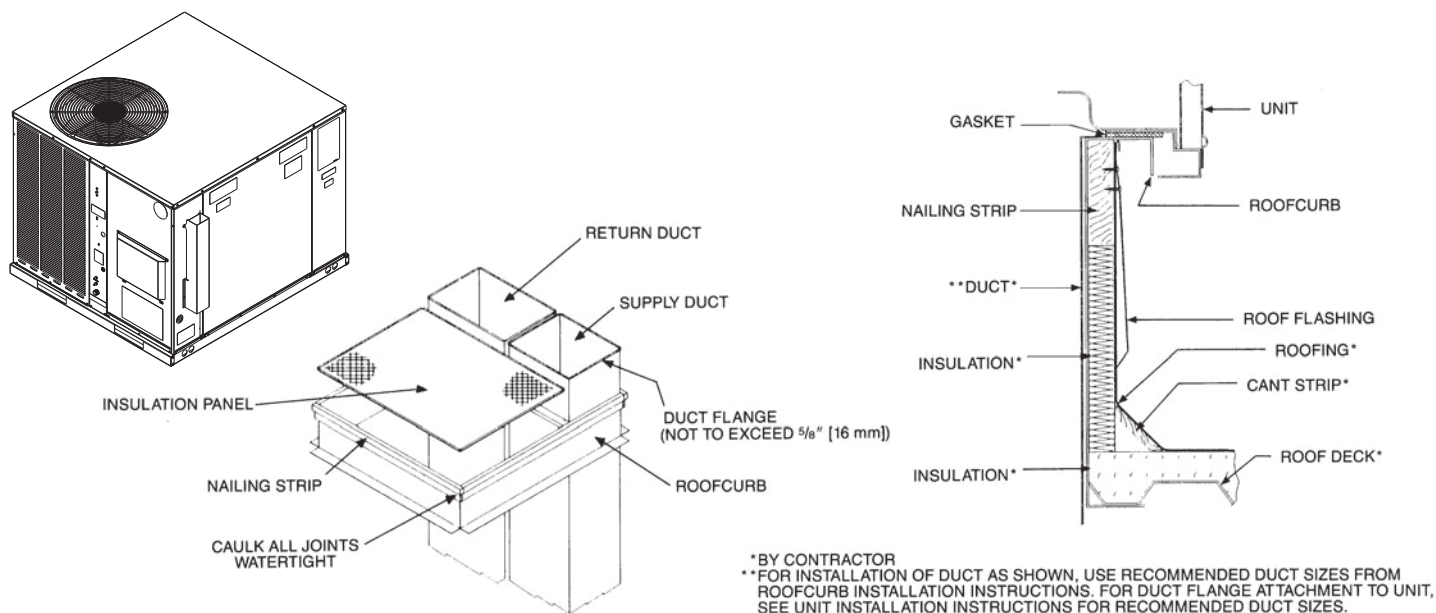


Illustration  
ST-A1334-15-00

NOTE: PERIMETER OF ROOFCURB IS SUPPLIED  
WITH A NORMAL 1" [25.4 mm] x 4" [102 mm]  
PINE NAILING STRIP.

[ ] Designates Metric Conversions

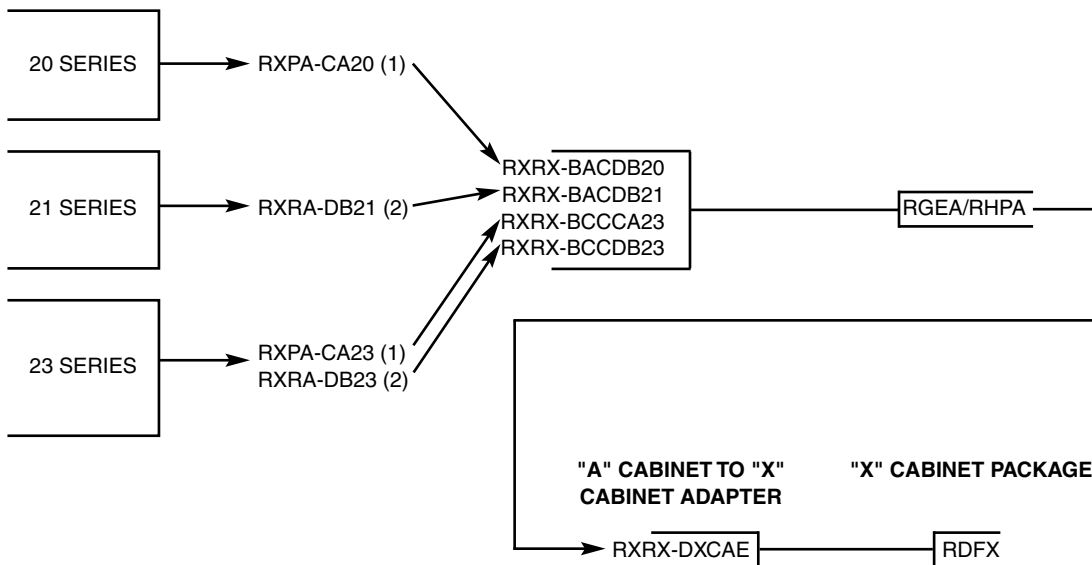




Fabricated from galvanized steel to adapt the New cabinet to the old style curb. All are furnished with a New gasket.

| OLD CURB MODEL | "A" CABINET TO OLD MODEL<br>ROOF ADAPTER | "A" CABINET PACKAGE |
|----------------|------------------------------------------|---------------------|
|----------------|------------------------------------------|---------------------|

(1) SLOPE TYPE  
(2) FULL PERIMETER TYPE



28

## FRESH AIR DAMPER

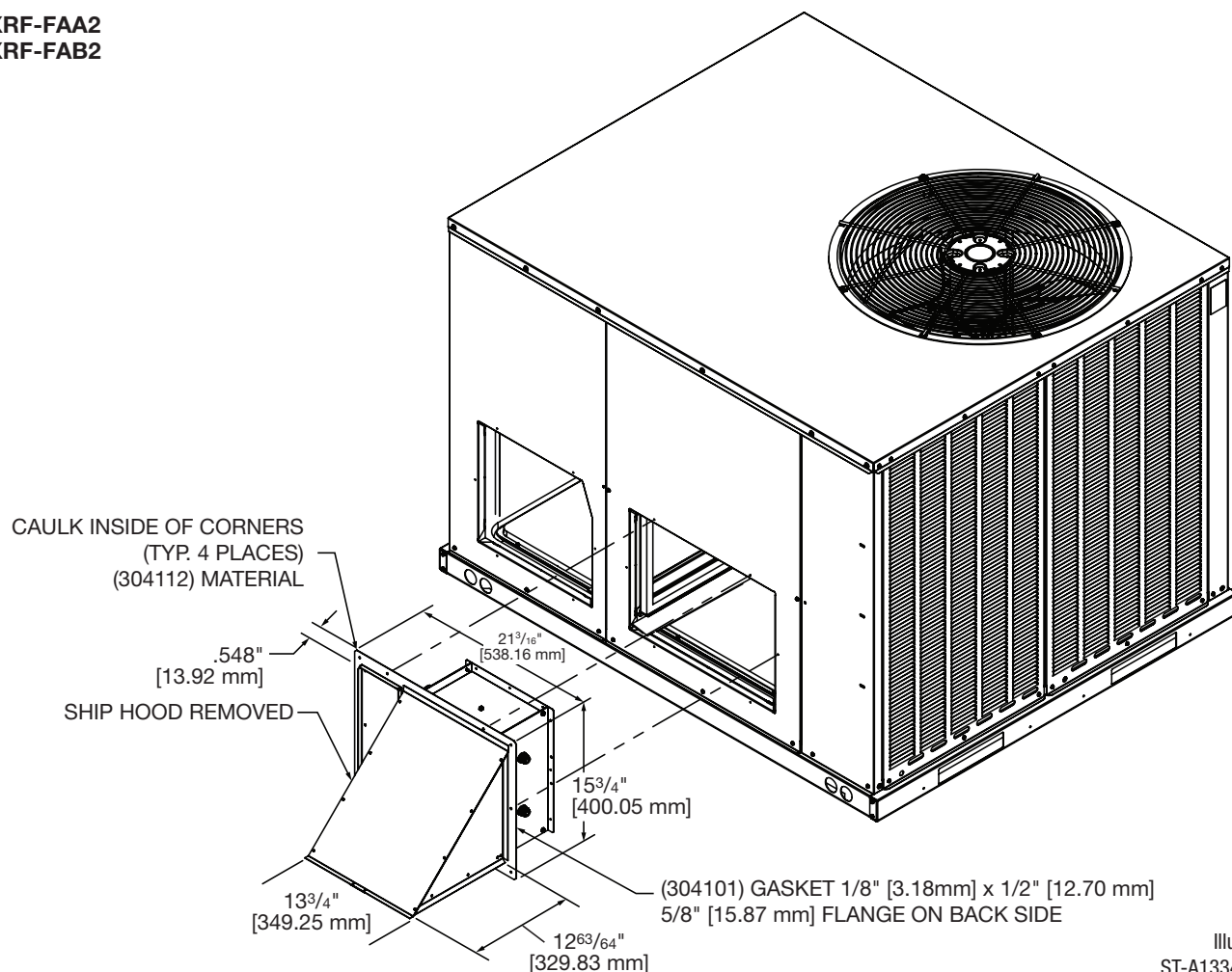
### **AXRF-FAA2 (Fixed - 0-35%)**

The 0-35% manual outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The amount of outside air (0-35%) is controlled by simply adjusting the side damper.

### **AXRF-FAB2 (Motorized - 0-35%)**

The 0-35% motorized outside Air Damper is designed to replace the unit return air duct cover. No drilling or damper assembly is required. The control motor opens the adjustable slide damper when the unit blower motor is energized.

### **AXRF-FAA2 AXRF-FAB2**



[ ] Designates Metric Conversions

## ECONOMIZERS

### RXRE-11RXCAM3

#### Horizontally and Vertically Applicable

- LCD Screen for Continuous diagnostic and system status
- Programmable set points for accurate positioning
- Simplified wiring and color coded terminals
- Onboard fault detection and diagnostics (FDD)
- Operational Checkout to verify installation
- Enthalpy sensors and actuator that communicate with Siemens controller reducing wiring errors while providing more information
- Setup and configure the economizer controller before putting it into usage by using the Climatix Mobile app or the inbuilt display
- CO<sub>2</sub> sensor input for demand control ventilation (DCV) applications
- RXRX-BV03 dual enthalpy kit available for field installation
- AMCA licensed class 1A low leak dampers

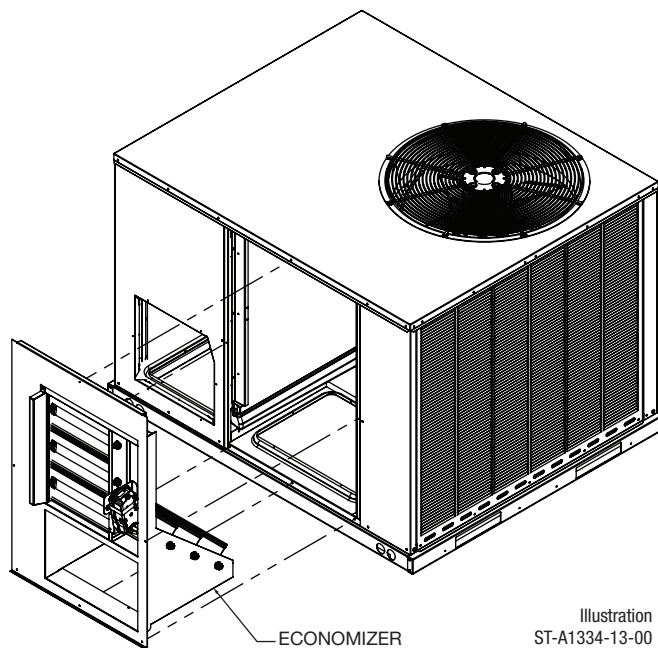


Illustration  
ST-A1334-13-00

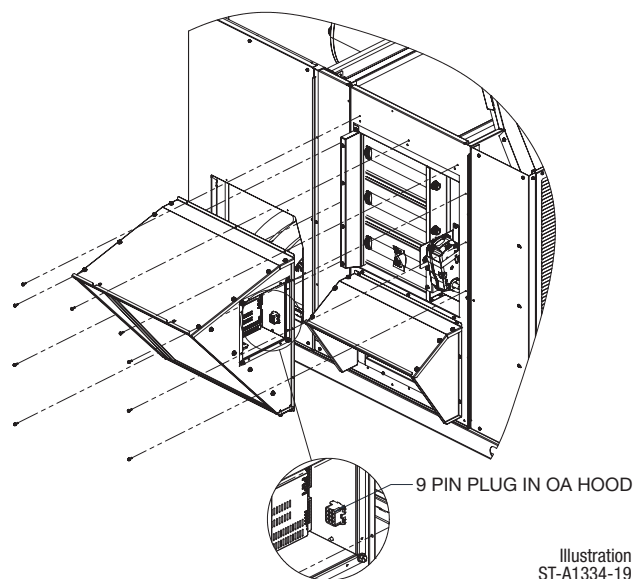
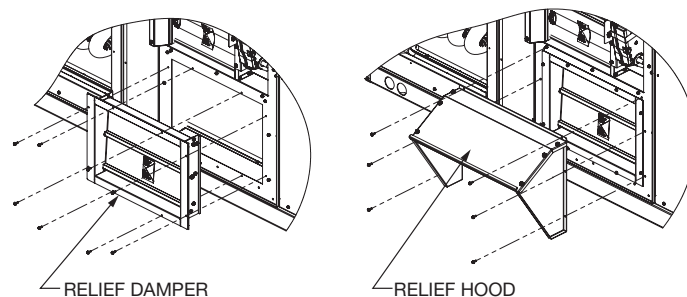


Illustration  
ST-A1334-19

#### VERTICAL APPLICATION



#### HORIZONTAL APPLICATION

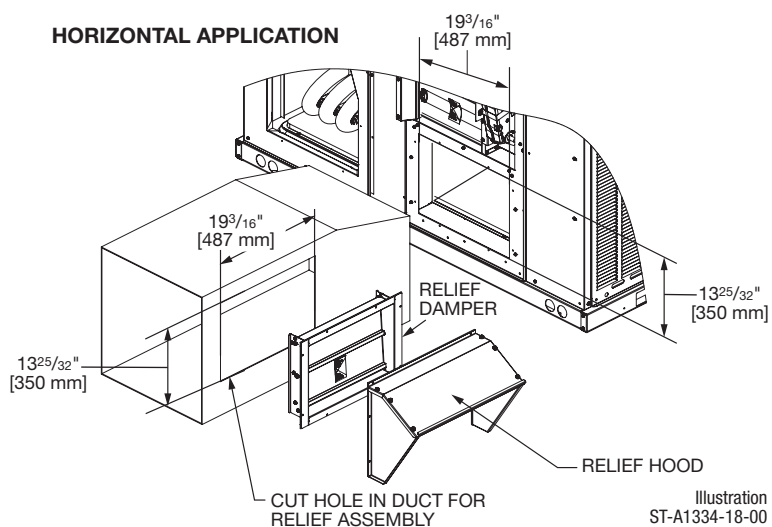


Illustration  
ST-A1334-18-00

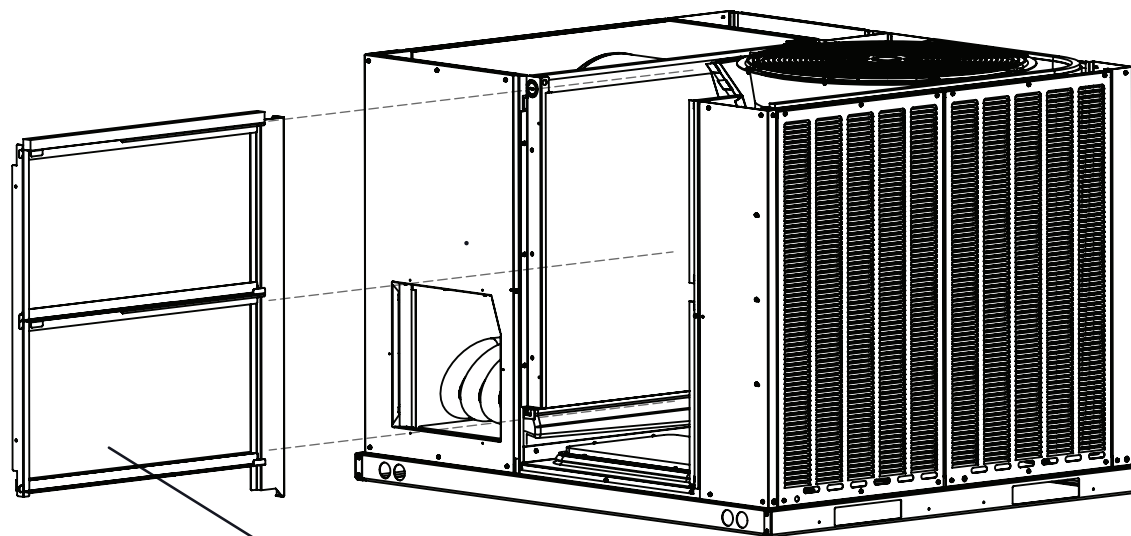
[ ] Designates Metric Conversions

## FILTER KIT INSTALLATION

### RXRY-B02

For use in either vertical or horizontal discharge

Split door design kit (RXRX-SDX01) should be used in the horizontal discharge application.



(ACCEPTS 16" [406 mm] X 30" [762 mm]  
1" [25.4 mm] DISPOSABLE FILTERS)

Illustration  
ST-A1352-01-00A

| Airflow Pressure Drop (1" filter) |                   |
|-----------------------------------|-------------------|
| CFM [L/s]                         | Inches W.C. [kPa] |
| 600 [283]                         | 0.01 [0.002]      |
| 800 [378]                         | 0.01 [0.002]      |
| 1000 [472]                        | 0.02 [0.005]      |
| 1200 [566]                        | 0.03 [0.008]      |
| 1400 [661]                        | 0.05 [0.012]      |
| 1600 [755]                        | 0.07 [0.017]      |
| 1800 [850]                        | 0.08 [0.021]      |
| 2000 [944]                        | 0.10 [0.026]      |

[ ] Designates Metric Conversions



## GENERAL TERMS OF LIMITED WARRANTY\*

Ruud will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

### Heat Exchanger

|                              |                   |
|------------------------------|-------------------|
| Factory Standard .....       | Ten (10) Years    |
| Stainless Steel              |                   |
| Commercial Application.....  | Twenty (20) Years |
| Stainless Steel              |                   |
| Residential Application..... | Limited Lifetime  |

\*For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.

### Conditional Parts (Registration Required)

|                                |                |
|--------------------------------|----------------|
| Residential Applications ..... | Ten (10) Years |
|--------------------------------|----------------|

### Compressor

|                                |                |
|--------------------------------|----------------|
| Residential Applications ..... | Ten (10) Years |
| Commercial Applications .....  | Five (5) Years |

### Parts

|                              |              |
|------------------------------|--------------|
| Commercial Applications..... | One (1) Year |
|------------------------------|--------------|

**Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.**

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In keeping with its policy of continuous progress and product improvement, Ruud reserves the right to make changes without notice.

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